



# **Petroleum** Supply Monthly

January 1983

Energy information Administration Washington, D.C. 20585



This Energy Information Administration (EIA) publication is presented under the authorities contained in Section 205 of the Department of Energy Organization Act. This law provides that the Administrator of the EIA need not obtain approval of the content of reports which he has prepared in accordance with law. The information contained herein, therefore, should not be construed as advocating or necessarily reflecting any policy position of the Department of Energy or any other organization.



## Subscription Information

The Petroleum Supply Monthly report is prepared by the Petroleum Supply Division, Office of Oil and Gas, Energy Information Administration. This publication is available on an annual subscription basis from the Superintendent of Documents, U.S. Government Printing Office. Send order and payment to:

Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

Single Copy
Domestic-\$5.00/copy
Foreign-\$6.25/copy

Order Desk (202) 783-3238 Subscription
Demestic-\$60.00/year
Foreign-\$75.00/year

For questions on energy statistics or information on availability of other EIA publications, contact: National Energy Information Center, EI-20, Forrastal Building, Washington, D.C. 2088; 1202/252-3809.

Released for printing: January 26, 1983.

## Contents

	Summary Statistics Detailed Statistics Clessary Explanatory Notes.	41 G-1
Summary Statistics Tables November 1982	Crude Oil and Petroleum Products Overview Crude Oil Supply and Disposition. Finished Motor Gasoline Supply and Disposition. Datallize Pard Oil Supply and Disposition. Bestinat Pard Oil Supply and Disposition. Bestinat Pard Oil Supply and Disposition. Oil Products Products Supply and Disposition. Other Petroleum Products Supply and Disposition. Imports of Crude Oil and Petroleum Products from OPEC Sources Imports of Crude Oil and Petroleum Products from Nen-OPEC Sources Sources	26 27 32 33 36 37 38
Detailed Statistics Tables November 1982	National Statistics Table 1. U.S. Preteleum Balance Table 2. Supply and Disposition of Crude Oil and Petrolsum Products Table 3. Vars-i-bade Supply and Disposition of Crude Oil and Petrolsum Table 4. Pars-i-bade Supply and Disposition of Crude Oil and Petrolsum Table 4. Daily Average Supply and Disposition of Crude Oil and Petrolsum Products Table 5. Vars-i-bade Daily Average Supply and Disposition of Crude Oil and Petrolsum Products	45 46
	Supply and Disposition of Crude Oil and Petroleum Products by PAD Districts Table 8 PAD District 1 Table 8 PAD District 1 Table 8 PAD District II Table 8 PAD District IV Table 10 PAD District IV	49 50
	Production of Crude Oll and Lease Condensate (September 18f Table 11. Products by PAD Batter and State. Table 12. Offshore Production by State. Table 12. Offshore Production by State.  Natural Gas Processing Table 14. Natural Gas Processing Plant Production of Petroleum Products by PAD District.	53
y	Refinery Operations by PAD District Table 16. Refinery Input of Grade Oil and Petroleum Products Table 16. Refinery Input of Grade Oil and Retroleum Products Table 17. Percent Refinery Video of Petroleum Products Table 18. Refinery Receipts of Crude Oil Table 19. Fueld Consumed at Refineries	57 58 59

| Imports and Exports of Crude Oil and Petroleum Products | Table 20. Imports by PAD District | 20. Imports by PAD District | 21. Imports by Source and PAD District | 21. Imports by Pad District | 25. Imports by Pad



Figures



Glossary Explanatory Notes



Stocks	
Table 24. Stocks of Crude Oil and Petroleum Products by PAD District	в
Transportation of Crude Oil and Petroleum Products Between PAD Districts	
Table 25. Movements by Pipeline, Tanker, and Barge	7
Table 26, Movements by Pipeline	7
Table 27. Movements by Tanker and Barge	7
Table 28. Net Movements by Pipeline, Tanker, and Barge	7
Heavy Fuel Oils by Sulfur Content	
Table 29. Production of No. 4 Fuel Oil and Residual Fuel Oil	7
Table 30. Stocks of No. 4 Fuel Oil and Residual Fuel Oil	7
Table 31. Imports of Residual Fuel Oil by Country of Origin	7
Table 32. Imports of Residual Fuel Oil by State of Entry	7
Petroleum Overview, Annual	2
Petroleum Overview, Monthly	2
Crude Oil and Petroleum Products Ending Stocks, Annual	2
Crude Oil and Petroleum Products Ending Stocks, Monthly	2
Crude Oil Supply and Disposition, Annual	2
Crude Oil Supply and Disposition, Monthly	2
Crude Oil Ending Stocks, Annual	2
Crude Oil Ending Stocks, Monthly	2
Products Supplied, Annual	2
Products Supplied, Monthly	2
Motor Gasoline Ending Stocks, Annual	2
Motor Gasoline Ending Stocks, Monthly	2
Distillate Fuel Oil Ending Stocks, Annual	3
Distillate Fuel Oil Ending Stocks, Monthly	3
Residual Fuel Gil Ending Stocks, Annual	3
Residual Fuel Oil Ending Stocks, Monthly	3
Liquefied Petroleum Gases and Ethane Ending Stocks, Annual	3
Liquefied Petroleum Gases and Ethane Ending Stocks, Monthly	3
Oil B the B the Self Charles to and	- 0

1.2 EJA-87, 88, 89, 90; Joint Petroleum Reporting System
1.3 E1A-161, 162, 163, 164, 165: Weekly Petroleum Reporting Syste
1.4 EIA-170: Tanker and Barge Shipments of Crude Oil and Petrol
Products Between Districts

1.6 Census Import and Export Tabulations

2.6 Movements 2.7 Preliminary Monthly Statistics

Other Petroleum Products Ending Stocks, Monthly 35
Definitions of Petroleum Products and Other Terms. G-1

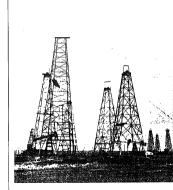
1. Data Collection ..... E-2

2.	Estimation
	2.1 Supply
	2.2 Domestic Crude Oil Production
	2.3 Disposition
	2.4 Stocks
	2.5 Average Stock Levels

5.	Notes on Tables
	5.1 Crude Oil and Petroleum Products Overview
	5.2 Crude Oil Supply and Disposition
	5.3 Finished Motor Gasoline Supply and Disposition
	5.4 Distillate and Residual Fuel Oil Supply and Disposition
	5.5 Liquefied Petroleum Gases and Ethane Supply and Disposition
	5.6 Other Petroleum Products Supply and Disposition
	5.7 U.S. Petroleum Balance (Table 1)
PA	D Districts
Bu	reau of Mines Refinery Districts
	strict Man, Oil and Gas Division, Railroad Commission of Texas

Accuracy of Petroleum Supply Data . . . . . . .

## Maps







# Petroleum Supply Summary

		Decemb	er	Cumulative January Through December			
Average Volume for Period			%			%	
(Million Barrels Per Day)	1982	1981	Change	1982	1981	Chang	
Total Product Supplied	14.9	18.6	-10.3	15.2	16.1	-5,3	
Motor Gesoline	6.2	6.7	-6.6	6.5	6.6	-1.2	
Distillate Fuel Oil	2.8	3.2	-13.1	27	2.8	~5.7	
Residuel Fuel Oil	1.3	2.2	-42.4	1.7	2.1	-20.1	
Crude Inputs to Refineries Crude Oil and Natural Gas	11.8	12,3	-4.7	11.8	12.5	-54	
Liquids Production	10.3	10.2	1.2	10.2	10.2	0.4	
Net Imports'	3.6	5.2	-30.8	4.2	5.4	-21.9	
Net Crude Oil Imports	2.6	3.8	-30.8	3.1	3.9	-21.9	
SPR Imports	0.1	0.2	-12.1	0.2	0.3	-34.8	
Net Product Imports	0.8	1.2	-33.0	1.0	1.2	-19.4	
Crude Oil Stock Withdrawel*	(a)	0.08	-	0.03	0.05	_	
Product Stock Withdrowel	0.20	0.75		0.24	0.13		
Stocks et End of Period (Million Berrels)							
Crude Oil*	364	363	-2.6				
Motor Gasoline <sup>a</sup>	237	253	-6.4				
Distillete Fuel Oil	181	192	-5.6				
Residual Fuel Oil	68	78	-12.7				
Totel Product	792	890	-11.0				
SPR	293	230	27.4				
Total	1,440	1,484	-3.0				

exports of crude oil and petroloum products.

<sup>&</sup>quot;Excluding Strategic Petroleum Reserve (SPR).

Including blending components.

<sup>(</sup>a) Loss than 5,000 barrels per day Note: Percent changes are based on unrounded values. December 1982 data are estimates based on weekly data, except for export estimates which are November 1982 monthly values. Source: Energy Information Administration, Petroleum Supply Monthly, Jonnary 1983.

## U.S. Petroleum Developments: 1982

Petroleum developmenta in 1982 were characterized by continued declines in many areas:

- Imports and petroleum consumption continued to decline.
- Stocks of products declined sherply and remained low.
- Crude oil prices as well as retail and wholesale refined product prices fell.
- Refinery production and capacity daclined.
- Drilling activity decreased substantially from the record neak

in 1981.

Crude oil production and exports did not follow the downward trend. Crude oil production was virtually unchanged from the 1981 rate: while exports increased for the seventh consecutive war.

## Petroleum Consumption

During 1982, petroleum consumption in the United States (measured as products supplied for domestic use) declined for the fourth consecutive year (see Figure 1). The average consumption of 15.2 million barrels per day, was about 900 thousand berrels per day lower than the 1981 average and was the lowest annual average for petroleum consumption since 1971. Even though prices fall, especially during the first quarter of 1982, consumption continued to drop as the economy weakened. Continued conservation efforts and fuel switching, induced by past sharp patroleum product price increases, also contributed to the decline, even though petroleum prices were generally lower during 1982 than during 1981.

Despite the continuing decline in consumption, petroleum, remained the principal U.S. energy source. About 43 percent of the energy consumed in the United States during 1982 came from petroleum (see Figure 2). This percentage, which reached a peak at 49 percent in 1977, continued to drop as high patroleum prices and the relatively lower cos of using fuels such as natural gas at coal encouraged conservation by cosumers and conversion to other fuels.

Motor gasoline supplied for domest use severage 5.6 million barrels per didn'ing 1982, 12 percent below the awage for 1978, the peak year of gasoli consumption and about 1 percent below that of 1981. This decline occurrel is lower throughout most of 1982 the those in 1981. Residual fival oil and dillater final oil also showed large declin in consumption, down 20 percent and percent, respectively, from their 1991 maker refine percent in the consumption of 1982 the percent in the per

\*Boargy Information Administration, Mc Ally Busery Review, DOE/ELA-00568271 (Washington, D.C., December 1982, p. 6. \*Renergy Information Administration, Petleum Supply Monthly, DOE/ElA-01 (8301) (Washington, D.C.: January 1983) 26.

Pigure 1. Petroleum Summary



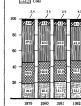


<sup>1</sup>Includes crude oil and natural gas plant liquid production. Source: Petroleum Supply Monthly

Figure 2. Consumption of Energy by Type (Percent)



Natural Gos Coal



Data for 1982 are for the months of January through September Source: Energy Information Administretion, Monthly Energy Review,

DOB/EIA-0035-(81/12), Wonkington, D.C., December 1982 creased by an average of 5 percent during the year (see Figure 3)."

Distillate fuel oil consumption, which averaged 2.7 million barrels per day in 1982, was about 6 percent below the average for 1981. The October 1982 price for home beating oil was approximately \$1.20 per gelion compared with the average price of approximately \$1.19 per gallon in October 1981.4

After decreasing nearly 17 percent between 1980 and 1981, residual fuel oil consumption continued to decline during 1982, averaging 1.7 million barrels per day, about 20 percent below the 1981 average. The average retail price per barrel, excluding tax, of residual fuel oil in the first 10 months of 1982 was \$29.16, more than 10 percent below the average price for 1981,7 That the decline in consumption came at a time w prices were falling indicates the imp of the sluggish economy on indust users, the second largest consumer residual fuel oil (Electric utilities are largest consumers).

Fuel-switching by electric utilities a industrial plants also contributed to decline in residual fuel oil consumpti During 1981, the costs of general electricity were significantly higher utilities burning residual fuel oil th

\*Petroleum Sunniv Monthly, (January 19 pp. 27, 32, and 36. Petroleum Supply Monthly (Jenuary 19:

p. 27. Energy Information Administrati Monthly Petroleum Product Price Rep-

DOF/RIA-0032 (82/10) (Weshington, D. October 1982) Table 8. \*Petroleum Supply Monthly (January 19 p 32. Monthly Petroleum Product Price Reg.

(October 1982) Table 3.



Other Products 1



1979 1980 1981 Other petroleum producte include liqui goose, jet fuels, and petrochemical stocke. 'Reflecte recast 1979 and 1980 figures

Explanatory Note 4. Source: Petroleum Supply Monthly for those burning coal and natural ges. The cost of burning residual foul oil at steam electric utilities was 85.29 per million British thermal units (Btu's), approximately three and a half times the cost of burning coal (\$1.53 per million Btu's) and nearly twice the cost of burning natural gas (\$2.53 per million Btu's).

## Refinery Operations

The total operable distillation capacity of petroleum refineries in the United States decreased by about 11 million States decreased by about 11 million capacity and petroleum refines and town. Refinesy capacity had previously decreased by 461 lbousand barries per day as a result of refinesy petroleum refinesy locations are the result at acumulation of the state of t

U.S. refineries operated at about 70 percent of capacity in 1982, partly as a result of the same factors which caused so many refineries to close. Crude oil inputs to refineries averaged about 11.8 million barrels per day during the year, about 5 percent below the 1981 aversec...11

### Petroloum Stocks

Total petroleum stocks (axcluding Stratagic Petroleum Reserve stocks) decreased about 107 million barrels during 1982. About 98 million barrels of the decrease were in inventories of refined products." The drewdown reflect refiners' decisions to maintain lower inventories.

At the end of 1982, stock levels of most major products were well below the levels at the end of 1981. Distillate fits oil inventories, at 151 million barrels, were 6 percent below the level at the end of 1981 million barrels, were 7 percent below the level at the end of 1981. In million barrels, were nearly 13 percent below the level at the end of 1981. The ventories of motor gasoline stode of 137 million barrels, about 6 percent below the level at the end of 1981. Even the level at the end of 1981. The level at the end of 1981 is percent below the level at the end of 1981. The level at the end of 1981 is percent below the level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1981. The level at the end of 1982 is percent below the level at the end of 1982 is percent below the level at the end of 1981 is percent below the level at the end of 1981 is percent below the level at the end of 1981 is percent below the level at the end of 1981 is percent below the level at the end of 1981 is percent below the level at the end of 1981 is percent below the end of 1981 is

fuel oils in particular, were expected to be adequate to meet the anticipated lower demand for the winter of 1982-1983.

## Imports

The downward trend in imports continued during 1982 as net imports (gross imports minus exports) of crude oil and petroleum products sank to an average of 4.2 million barrels per day, 22 percent below the average for 1981. During 1981, net imports averaged 5.4 million barrels per day, 15 percent below the level during 1980. Of the 1982 net import emounts, net crude oil imports averaged 3.2 million barrels per day, down 23 percent from 1981. Net imports of petroleum products averaged 1.0 million barrels per day, 19 percent below the annuel average for 1981. The largest decline among petroleum product imports was in distillate fuel oil imports which were down 45 percent from 1981.\*\*

## Exports

Exports of pstroleum products were about 200 thousand barries per day, 57 percent higher during 1982 than during 1981. The growth in exports is attributable mainly to the relevation of export restrictions. The increase was most noticeable in the residual field oil better than the second of the second of histories are the second of the second barries per day and in exports of distillate fuel oil, which increased by 60 thousand barries per day. For

<sup>\*</sup>Energy Information Administration, Cost and Quality of Furls for Electric Utility Plants, DOE/EIA-0191(81) (Washington, D.C., 1982) no. 10. 14. 17.

<sup>\*</sup>Petrolsum Supply Monthly, (January 1983), n. G-5.

<sup>&</sup>quot;Petroleum Supply Monthly, (June 1982), p. 8.
"Petroleum Supply Monthly (Jamesry 1983)

p. 28.

\*\*Petroleum Supply Monthly (January 1983)
p. 18.

\*\*Petroleum Supply Monthly, (January 1983)

pp. 26, 27, and 32.

\*Petrolaum Supply Monthly, (January 1983)
pp. 19, 22, and 27.

<sup>&</sup>quot;Monthly Energy Review (Decamber 1982) pp. 31, 40, and 42.

several months during the year, the United States was a net exporter of distillate fuel oil. In those months, the volume of distillate fuel oil exported exceeded the volume imported.

## Crude Oil Production

Domestic crude oil production averaged approximately 8.8 million barrels per day for the fourth consecutive year. However, because of the declines in crude oll prices and demand, drilling activity, which reached an all-time high in 1981, decreased substantially during The average number of drilling rige operating declined from 4.520 in Decem-

ber 1981 to 2,896 in December 1982, a 40 percent decline." During 1982. 85,855 new welle were completed. This was 7,317 wells above the number complated during 1981.17

The number of esismic crews operating

bagan a decline which continued

seaked at 744 in September 1981 and

through 1982. By December 1982, the number had reached 477, the lowest laval eince March 1980.10 Prices

Most petroleum prices declined steadily through the first 4 months of the year including: average domestic wellhead

acquisition costs of domestic enforeign crude oil, the average wholeesle and retail prices of dissel fuel and heat ing oil, the average wholesale prices o residual fuel oil and the average retai price for motor gasoline. By September the everage domestic wellhead price of

prices of crude oil, the composite refine

crude oil was \$28.08 per berrel, \$3.05 be low that of one year earlier," and the average composite refiner acquisition cost in October was about 7 percent be low the cost at the and of 1981. The average retail price of motor gasoline, as \$1.27 per gallon in November, was about 6 percent below the average price in November 1981.\*\*

oil, at \$1.20 per gellon, was about 1 per cent higher than in October 1981." "Hughes Tool Company, Rotary Rigs Run ning-By State (December 1981-Decembe

The average price of residential heating

"American Petroleum Institute, Report or Drilling Activity in the United States (Janu. ary 1981-December 1982).

"Society of Exploration Geologists, "SEC Nows Rolsono," (January 1980-Decembe "Monthly Energy Review (Documber 1982 

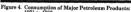
(83-01) (Washington, D.C.: January 21 1983), p. 17. "Weakly Petroleum Status Report, Uswar-21, 1983), p. 17.

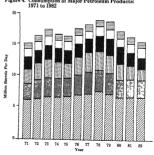
## Trends in Petroleum Products Consumption, 1971-1982

During 1982, consumption of petrolsum producte (measured as producte supplied for domestic use) continued to decline as it has in each year since 1978. The average 1982 consumption of 15.2 million harrels ner day was only slightly shove the average during 1971. Petroleum products consumption has varied since 1971 in reaction to crude oil and petroleum product price changes, to product availability, and to economic conditions. Petroleum product consumption increased from 1971 to 1973 as supplies were plentiful and prices were relatively low. Then, as a result of the Arab oil embargo and collective action of the Organization of Petroleum Exporting Countries (OPEC) prices of imported crude oil and netroleum products increased rapidly. These sudden price changes contributed significantly to an economic recession which ran from November 1973 through March 1975. The recession, combined with higher prices, in turn contributed to decreases in petroleum consumption in 1974 and 1975.

Because of increased imports and stabilized prices, petroleum supplies totably supplies of the supplies of petroleum products jumped more occusioned, the largest at mount ever. The record consumption in 1978 was again followed by sherteged in 1979 and introduced by the supplies of the supplies o

Energy Information Administration, Petroleum Supply Monthly, DOE/61A-01.09 (83/01) (Washington, D.C.: January 1983) n. 18.







### Data Sources

The consumption data in this article ere based on the State Energy Data System (SEDS), an EIA system that generates annual estimates of energy consumption by State and major enduse sectors. In the SEDS, State consumption of petroleum products is calculated by disaggregating national values using State cales or deliveries data. Complete documentation of the SEDS data sources and methodology is found in the EIA publication, State Energy Data Report, 1960 through 1980. This SEDS report is the source of consumption data presented in this article for the years 1971 through 1980, except where otherwise noted. The end-use sector consumption estimates for 1981 follow the SEDS methodology but use 1981 source data. Petroleum products consumption for 1982 is drawn from the products supplied information in the Petroleum Supply Monthly.

per barrel in Desember 1978 to approximately \$29 per barrel in Desember 1979 forcing up retail prices of petroleum products. Petroleum consumers reporting to the production of the petroleum consumers by switching to lear costly finds whose were possible and by reducing their consumption through conservation offerts. Since 1980, reduced industrial utilizations 1980, reduced industrial utilizations 1980, reduced industrial utilizations and the petroleum combined with continued conservation and flual withching has contributed to further declines in consumption of petroleum predictors.

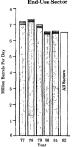
### Trends in Consumption of Major Products

Since 1971, average annual consumption of motor gasoline, distillate fuel oil. and residual fuel oil combined has followed a pattern similar to that of total consumption (see Figure 4). Consumption of these products peaked in 1977 or 1978 and then declined. Consumption of residual fuel oil showed the most dramatic change over this period; it showed the greatest percentage increase among the major products and the most drastic decline. Consumption of liquefied petroleum gases (LPG) and of jst fuel, on the other hand, has been more stable during this period, showing no significent trend. Except for consumption of residuel fuel oil, which was significantly lower, consumption of all of the major products during 1982 was either above or close to the amount of that product consumed in 1971.

## Motor Gasoline

Motor gasoline consumption increased each year between 1971 end 1978 except 1974, the year after the Arab Oil Embargo. During 1978, motor gasoline consumption peaked at an average rate of 7.4 million barrels per day, about 23 percent higher than the 1971 level. Average annual consumption declined to 7.0 million barrels per day in 1979 and to 6.6 million berrele per day in 1980, a rate which continued through 1981 (see Figure 5). Consumption in 1982 averaged 6.5 million barrels per day, more than 12 percent below the peak consumption of 1978. However, because motor gasoline consumption remained relatively constant after 1980 while total petroleum product consumption declined, the motor gasoline portion of total consump-

Figure 5. Consumption of Motor Gasoline by End-Use Sector



Commercial
Industrial
Transportation

Sector

tion increased to 48 percent in 16 During most of the 1970's, motor giline's share ranged between 38 and percent of total petroleum consumpt During 1977, the first year that E

collected unleaded motor gasoline a unusel consumption of unleaded me gasoline averaged 2.0 million barrele day, about 28 percent of all motor g line consumption of unleaded motor g line consumption of unleaded motor g line consumption of unleaded motor g line has increased significantly.

<sup>\*</sup>Bnergy Information Administra Monthly Energy Review, DOE/EIA-Ei80] (Washington, D.C.: March 1990), p \*Petroleum Supply Monthly (January 1 p. 28.

United States we unleaded. During 1982, unleaded gaseline consumption averaged 3.4 million barrels per day or about 52 percent of total motor gasoline consumption. The increase in consumption of unleaded motor gasoline was due to the increasing number of vehicles requiring unleaded gasoline planes and of the property of the state of the stat

The fluctuations in total motor gasoline consumption are attributable in part to gasoline price increases, improved automobile efficiency, and changes in vehicle use patterns. Following the 1973 Arab Oil Embargo, when motor gasoline supplies became tight and gasoline prices increased, consumption declined slightly. By 1976, after consumers adjusted to these price increases and the supply of motor gasoline was again adequate. consumption rose as vehicle miles travelsd increased. Then, in 1979, increases in the cost of imported crude oil caused asoline prices to rise dramatically. By December 1981, the average price per gallon for all grades of gasoline was \$1.35, almost double the December 1978 price of \$0.69.\* Once more gesoline consumption fell as increased prices caused consumers to limit use of their vehicles. Continued improvements in fuel economy, which increased 15 percent from 1975 to 1981, also contributed to the reduction in consumption.

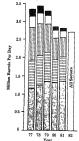
### Distillate Fuel Oil

The pattern of distillate fuel oil consumption during the 1971-1982 period followed that of total petroleum more clearly than consumption of any other major product. During 1973, annual consumption of distillate fuel oil everaged 3.1 million barrels per day, 6 percent above the 1971 average. After decreasing slightly in 1974 and 1975, it climbed to 3.4 million barrels per day in 1978, 29 percent above the average for 1971 and 11 percent above the average for 1973. Since 1978, consumption of distillate fuel oil has decreased steadily (see Figure 6). During 1982, it averaged 2.7 million barrels per day, about the same as the 1971 average and more than 22 percent below the average for 1978 when distillate fuel oil consumption neaked.\*

Increasing prices and conservation measures have contributed to declining use of distillate fuel oil by residences and commercial establishments (see F pres 6, 10, and 11) as their primary be ing fuel. Industrial consumption has clined since 1979 because of stagm economic conditions (see Figures 6 # 13). While these decreases were occ ring, the importance of distillate fuel in the transportation sector increase (see Figures 6 and 14). The use of die fuel in on-highway vahicles (true buses, and autos), as a low-sulfur bunk fuel for intercoastal shipping, and a: railroad fuel has offset the declini heating and industrial market for dislate fuel oils in recent years. As a resu the distillate percentage of total or eumption has remained relatively or stant at about 18 percent, even thou its importance in different sectors of t economy has changed.

Monthly Energy Review (March 1982), p. Monthly Energy Review (March 1980), p. ' Petrolsum Supply Monthly (January 198 p. 27.

Figure 6. Consumption of Distillate Fuel Oil by End-Use Sector

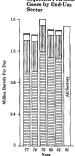




### Residual Fuel Oil

The trend in residual fuel oil consumption differs somewhat from that of the other major products. Annual consumption of residual fuel oil peaked in 1977 at 3.1 million barrele per day. In 1977, consumption of residual fuel oil was almost 34 percent higher than in 1971, the largset percentage gain among the major products. At the same time, its share of total patrolsum product consumption. was also larger-15 percent in 1971 and almost 17 percent in 1977, Since 1977, average annual consumption of residual fuel oil has declined. In 1982, consumption of residual fuel oil averaged 1.7 million barrels per day, 24 percent below the 1971 average and 46 percent below the average for 1977. The share of total petroleum consumption represented by

Figure 8. Consumption of Liquefied Petroleum Gases by End-Use



residual fuel oil consumption was a lower in 1982 (11 percent) than in 19 (15 percent).

Throughout most of this 12-year peri the principal consumers of residual f oil were electric utilities and industri plants. Consumption of residual fuel by electric utilities has declined eit 1977 mainly because its price has creased in relation to that of coal a natural gas. The decreased utilization manufacturing plants stemming fr the stagnant condition of the econor has resulted in decreased industrial a of residual fuel oil (see Pigure 7), T portion of residual fuel oil consumed the transportation sector, however, panded as consumption at utilities a in industry declined. Transportation ( represented only 13 percent of total aidual fuel oil consumption in 1977, b by 1981 it accounted for 26 percent the total, becoming the second large

# and-use of residual fuel oil. Liquefied Petroleum Gases

Awwago consumption of liquefied jac leum geese (LPG) during 1982 w slightly more than 1.6 million barr per day, an awwago that was light than in ony year except 1976 when III barrels per day. Except for the drop the recession year of 1975, consumpt of LPG was relatively stable at eligh more than 1.4 million barrels per c from 1972 tarough 1978. During it and 1981, oversige LPG consumpt per day.

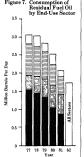
Increased consumption of LPG in the dustrial sector has more than offest elines in usage by the other sectors at 1978. Industrial use, primarily as more than the sectors of the sectors o

## Jet Fuels

Consumption of jet fuels remained retively constant between 1971 and 19 varying between slightly less than million barrele per day in 1974 and most 1.1 million barrele per day in 19 1981, the lovel fell to 1.0 shillion is



Figure 7. Consumption of



rels per day and remained at that level through 1982. The recent drop in consumption probably reflects reductions in eir traffic brought on both by the controllers strike of 1981 and the depressed economic conditions during the past 2 years.

## End-Use Sector Consumption

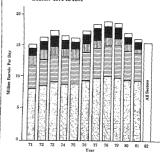
During the period from 1971 through 1981, patterns of consemption of major petrolsum products changed. Two periods of major poins increases were followed by reduced petrolsum usage in all sectors of the economy, because of consumers' conservation efforts and their writching to other, less costly froist. The transportation and industrial sectors consumed none petrolsum in 1981 than in 1971, while the other sectors consumed to see Figure 9).

## Residential Sector

After remaining relatively stable in early 1970's at an annual everage about 1.5 million burrels per day, a samption of petroleum products in residential sector declined in ret years (see Figure 10). By 1981, residtial use severaged only 0.9 million barper day, 40 percent below the averesidential consumption in 1971.

The perion of tool perionem predomenupied accounted for by the of dential sector slao declimed during period. In 1871, it was elmost 10 1 sont of the total; in 1971, it was "Interest 10 1 sont of the total; in 1977, it was "I sont; and, in 1981, it was only of perce After 1978, when consumption of products began to decline, resident use declined et en ewes faster rate. 1981, residential consumption horoped 28 percent compared with a percent drop in total consumption.

Figure 9. Consumption of Petroleum Products by End-Use Sector: 1971 to 1981



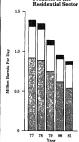


The decline in residential consumption of petroleum products can be traced primerily to fuel switching and conservation brought on by increases in the cost of fuel oil. The average retail price per gallon for residential heating oil was \$1.20 in 1981, almost triple the 1976 price of 40.6 cents.1 As the 1980 EtA Residential Energy Consumption Survey showed, many households have switched from heating oil to natural gas and wood.\*

## Commercial Sector

The commercial sector uses about helf as much petroleum as the residential sector. Between 1971 and 1981, commercial consumption fell from 0.7 million barrels per day in 1973, to a recent low of 0.5 million barrels per day in 1981. Commercial consumption in 1981 was 3 percent of total consumption compared with 5 percent in 1971.

Figure 10. Consumption of Major Petroleum Products in the



As with residential consumption, commercial use of petroleum products also declined as prices rose. Distillate and residual fuel oils are the principal petro leum products consumed in apartmen buildings, business offices, and institu tions. As the prices of petroleum prod ucts increased, commercial consumer began to switch to other fuels and to uti lize conservation means to reduce expenses. In addition, economic conditions since 1981 have forced many com mercial autablishments to close.

## Electric Utility Sector

Like petroleum consumption in the resi dential and commercial sectors, con sumption in the electric utility secto also declined. Electric utility consumn tion of petroleum products peaked is 1977 at 1.7 million barrels per day, 68 percent higher than the 1.1 million ber rels per day consumed in 1971 and 4 percent above the 1981 average annua consumption of 1,0 million barrels pe day.' Since 1977, the electric utility por tion of total petroleum product con sumption has declined as well, from about 11 percent in 1977 to 7 percent is 1981 (see Figure 12).

Price has been a primary factor in th decline in petroleum consumption a electric utilities. The significant in crease in the cost of fuel oil relative tthe cost of other fuels has encourage switching to fuels other than petroleur The EIA report, Cost and Quality of Fuels for Electric Utility Plants, 198 Annual, shows that, in 1978, the cos (per Btu) of fuel oil to electric utilitie was 53 percent higher than natural ga costs and almost twice the cost of cos In 1981, the price differential had it creased, and the price of fuel oil was a most twice that of ustural gas and e most three and a half times the price of coal.



<sup>&#</sup>x27;Monthly Energy Review (Merch 1982) n. 8. \*Energy Information Administration, Redential Energy Consumption Survey, Co. sumption and Expenditures April 19. through March 1981. DOB/E1A-0821 (Washington, D.C.: September 1982), pp.

<sup>&#</sup>x27;Monthly Energy Review (November 198: p. 28.

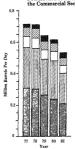
## Definitions of Major End-use Consuming Sectors

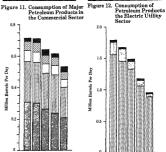
The State Energy Data System assigns mergy consumption to five major end-use sectors according to the following guidelines:

- · Residential Sector: Energy consumed by private household establishments primarily for space heating, water heating, sir conditioning, cooking, and clothes drying.
- · Commercial Sector: Energy consumed by non-manufacturing establishments. Included are motals, restaurants, wholesale businesses, retail stores, laundries, and other service enterprises, as well se health, social, and educational institutions, and

- energy consumed by Federal, State and local government.
- · Industrial Sector: Energy consumed by menufacturing, construction, mining, agriculture, and forestry establishments.
  - · Transportation Sector: Energy consumed to move people and commodities in both the public and privete sectors. Included are military, railroad, yessel bunkering, and marine uses, as well as the pipeline transmission of natural gas.
- Electric Utility Sector: Energy consumed by privately-and publicly-owned sateblishments which gengrate electricity primarily for result.

Petroleum Products in the Commercial Sector





78 79 80 81

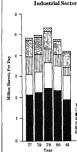
Year

Product Other Motor Gasoline LPG Residual Distillate

### Industrial Sector

Industrial use of petroleum products fluctuated with the economy between 1971 and 1981, but its chare of total petrolleum consumption changed very little (see Figures 9 and 13). During 1971, industrial consumption averaged 3.9 million barrels per day and accounted for about 25 percent of total consumption. Industrial consumption then climbed to 4.5 million barrels per day in 1973, before declining during the 1974-1975 recession. From 1976 through 1979, consumption again increased, as industrial output increased. It peaked at 5.1 million barrels per day in 1978, 33 percent above the 1971 average. Industrial consumption was lower in 1980 and again in 1981 as economic conditions deteriorated. The 1981 average of 4.1 million barrels per day wee 20 percent below 1979 levels but 9 percent higher than in 1971. Industrial consumption in 1981 accounted for 28 per-

Figure 13. Consumption of Major Petroleum Products in the



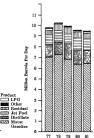
Product

cent of total petroleum product cor sumption.

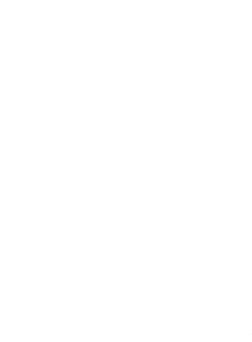
Transportation Sector

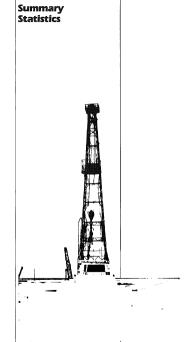
More petroleum is consumed in th transportation sector than in any other sector of the economy. It was the onl economic sector in which a greater vo ume was consumed in 1981 than in 1971 its share of total petroleum consump tion also increased over the same period Consumption for transportation use averaged 9.5 million berrele per day i 1981 compared with 8.1 million berrel per day in 1971. The 1981 average, how ever, was 6.5 percent below the recon 10.1 million barrels per day consumed it 1978. As a portion of total consumption the transportation sector accounted fo 59 percent in 1981 compared with por tione ranging between 52 and 55 percen in the 1970's. Transportation is ex pected to remain the principal consum ing sector for petroleum products throughout the 1980's.

Figure 14. Consumption of Major Petroleum Products in the Transportation Sector



Year





## Crude Oil<sup>1</sup> and Petroleum Products Overview

		Flei	id Productio	n en	Stock W	Ithdrawal <sup>2</sup>		Ending Stocke <sup>3</sup>
		Total Domestic <sup>4</sup>	Crude Oil	Naturel Ges Plant Production	Crude OII <sup>5</sup>	Petrolaum Producta	Petroleum Producte Supplied	Crude Oil <sup>5</sup> and Petroleum Producta
				Thousand Ben	rels per Day			Millions of Barrels
1973	AVERAGE	10,975	9,208	1,738	- 11	-148	17,308	1,008
1974	AVERAGE	10,498	8,774	1,688	-62	-117	18,853	1,074
1975	AVERAGE	10,045	3,375	1,633	-17	-145	18,322	1,133
1976	AVERAGE	9,774	0,132	1,603	-39	96	17,481	1,112
1977	AVERAGE	9,913	9,245	1,618	-170	-378	18,431	1,312
1978	AVERAGE	10,328	8,707	1,567	-78	172	18,847	1,278
1979	AVERAGE	10,179	8,552	1,584	~148	-25	18,513	1,341
1980	AVERAGE	10,214	8,597	1,573	-98	-42	17,056	1,392
1981	January	10.231	8,540	1.652	50	1.159	18.430	1.388
	February	10.294	8.604	1.653	-278	250	16.989	1,389
	March	10.272	8,613	1.624	-632	224	15,907	1,401
	Appl	10.195	8,557	1,599	-595	148	15,350	1,415
	May	10,160	8,501	1,593	-391	-374	15.383	1,438
	June	10,287	0.629	1,594	-135	406	15.098	1,430
	July	10.098	8,500	1,548	-380	91	15,882	1,439
	August	10,243	8,583	1,614	397	-999	15,263	1,457
	September	10,281	8,804	1,612	-285	-341	15,655	1,478
	October	10,225	8,563	1,598	~780	477	15,822	1,485
	November	10,269	8,586	1,630	-325	-233	15,593	1,501
	December	10,220	9,585	1,590	-170	745	16,598	1,484
	AVERAGE	10,230	8,572	1,609	-290	130	16,058	
1982	January	10,257	8,669	1,548	-238	1,129	15,890	1,461
	February	10,281	8,690	1,524	-218	1,268	15,941	1,431
	March	10,212	8,597	1,570	-65	1,049	15,560	1,401
	April	10,296	8,652	1,588	107	1,594	16,048	1,350
	May	10,223	8,660	1,520	49	-34	14,845	1,349
	June	10,242	8,681	1,505	86	-515	14,931	1,362
	July	10,228	9,649	1,521	~155	-865	14,771	1,394
	August	10,301	8,701	1,543	-440	4	14,830	1,407
	September	10,306	8,733	1,513	252	-489	14,921	1,415
	October	10,283	9,676	1,540	-584	-55	14,820	1,434
	November*	10,377	8,690	1,634	R-357	R-357	R 15,031	R 1,455
	December**	NA	8.660	NA	-126	200	14,894	1,440
	AVERAGE	NA	8.871	NA	-140	238	15,201	

<sup>1</sup> Includes fease condensate.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>&</sup>lt;sup>3</sup> Ending stocks for 1973-1960 are totals as of December 31.

Includes crude oil, natural gas plant production, other hydrocarbons and alcohol.

Includes stocks located in the Stretegic Petroleum Reserve.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised date.

<sup>\*</sup> See Explanetory Note 5.1.

<sup>\*\*</sup> Italics denote preiminary data. See Explanatory Note 2.7. Note: Aerural stock changes for 1975 and 1981 were calculated using expanded survey coverage. Geographic coverage: The 50 United States and the District of Columbia.

Crude Oil<sup>1</sup> and Petroleum Products Overview ( continued )

		Importe?						
		Total	Crude OII <sup>4</sup>	Petroleum Producte	Totel	Crude Oli	Petroleum Products	Net <sup>5</sup> Importe
				Thousa	nd Barrols p	er Day		
1973	AVERAGE	6,256	3,244	3,012	231	2	229	6.025
1974	AVERAGE	8,112	3,477	2,635	221	3	218	6,892
1975	AVERAGE	6,056	4,108	1.951	209	6	204	5,846
1976	AVERAGE	7,313	5,287	2.026	223	Ř	215	7,090
1877	AVERAGE	6,607	6.616	2,193	243	80	193	8,565
1978	AVERAGE	6,363	6,358	2,008	382	158	204	8,002
1979	AVERAGE	8,456	6,519	1,937	672	235	237	7,984
1880	AVERAGE	6,809	8,263	1,646	644	287	258	8,385
1981	January	6,827	4,932	1,895	558	338	219	8,270
	Fobruary	6,772	4,873	1,888	569	198	371	8,203
	March	6,028	4,521	1,507	588	210	378	5,442
	April	5,668	4,338	1,330	570	198	372	5,098
	May	5,775	4,287	1,489	595	312	283	5,180
	June	5,435	4,081	1,375	420	123	297	5,015
	July	5,818	4,298	1,521	571	257	314	5,245
	August	5,787	4.178	1.588	844	204	440	5.123
	Saptember	6,365	4,740	1,824	519	194	325	5.845
	October	5,959	4,380	1,578	738	226	512	5.221
	November	5,741	4,048	1,895	701	278	423	5.041
	December	5,843	4,137	1,706	856	189	467	5,187
	AVERAGE	5,998	4,396	1,588	588	226	367	5,401
1982	January	5,232	3,848	1,585	829	238	591	4,404
	February	4,691	2,949	1,742	804	304	499	3,887
	March	4,461	2,858	1,606	882	321	561	3,579
	April	4,286	2,813	1,474	788	174	611	3,501
	Mey	4.784	3,314	1,471	803	282	542	3,981
	June	5,227	3,782	1,445	703	94	609	4,524
	July	5,763	4,245	1,518	741	229	512	5,022
	August	5,156	3,820	1,338	858	304	554	4,288
	September	5,358	3,603	1,757	791	184	608	4,589
	October	5,230	3,838	1,594	932	270	662	4,296
	November*	R 5,726	R 3,883	R 1,884	788	292	524	4,940
	December**	4,377	3,023	1,354	NA.	NA	NA	NA
	AVERAGE	5,026	3,486	1,560	NA	NA	NA	NA

<sup>1</sup> Includes leese condensate.

<sup>2</sup> Includes ahipments from United States possessione and territories.

Includes shipments to United States possessions and territories

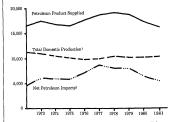
Includes crucio oil for storage in the Strategic Petroleum Reserve.

<sup>6</sup> Net Imports — Imports minus Exports. Totals may not equal sum of components due to independent rounding.

NA = Not evallable. R = Revised date.
\* See Explanatory Note 6.1.

Soa Explanatory Note 5.1.
Italics denote preliminary date. See Explanatory Note 2.7.
Geographic coverage. The 50 United States and the District of Columbia.
Sources: See "Sources" at the end of this section.

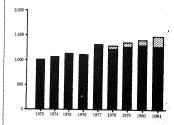
## Petroleum Overview, Annual (Thousand Barrels per Day)



'Includes crude oil and natural gas plant production.
'Includes SPR imports.

Source table: 'Crude Oil and Petroleum Products Overview.'

# Crude Oil and Petroleum Products Ending Stocks, Annual (Millions of Barrels)



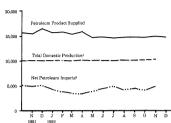
Crude Oil and Petroloum Products, Excluding SPR

Legend

SPR Crude Oil

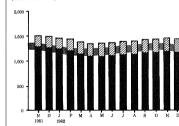
ource tables: "Crude Oil and etroleum Products Overvieu" and Orude Oil Supply and Disposition."





Includes crude oil and natural gas plant production. "Includes SPR imports. Source table: "Crude Oil and Petroleum Products Overview."

# Crude Oil and Petroleum Product Ending Stocks, Monthly (Millions of Barrels)



Legend

Z SPR Crade Oil

Crade Oil and Petroleum Products.

Excluding SPR

Average Stock Range

\_\_\_\_

'Average stock range (excluding SPR) based on 3 years of data. See Explanatory Note 2.6. Seurce tables: "Crude Oil and Petroleum Products Overview" and "Crude Oil Supply and Disposition."

Crude Oil<sup>1</sup> Supply and Disposition

		Field Pro	duction		Importe <sup>2</sup>		Stc Withdi	ck rawal <sup>3</sup>
		Total Domestic	Alasken	Total	SPR4	Other	SPR4	Other
				Thouse	and Barrels p	or Day		
973	AVERAGE	9,208	108	3,244		3,244		11
974	AVERAGE	8,774	193	3,477		3,477		-62
975	AVERAGE	8,375	191	4,105		4,106		-17
976	AVERAGE	8,132	173	5,287		5.287		-39
977	AVERAGE	8,245	464	6,616	21	6,594	-20	-150
978	AVERAGE	4,707	1,229	6,356	162	6,195	-163	84
979	AVERAGE	8,552	1,401	6,519	87	6,452	-67	-81
980	AVERAGE	8,597	1,617	5,283	44	5,219	-45	-52
981	January	8,540	1,606	4,932	106	4,826	-151	201
	February	8,604	1,619	4,873	80	4,793	-127	-150
	March	8,613	1,618	4,521	140	4,382	-155	-477
	April	8,557	1,608	4,338	272	4,066	-444	-151
	Mey	8,501	1,590	4,287	386	3,901	-513	122
	June	8,629	1,632	4,061	318	3,743	-434	298
	July	8,500	1,605	4,298	175	4,121	-324	-36
	August	8,583	1,602	4,179	257	3,822	-372	769
	September	8,604	1,607	4,740	435	4,306	-486	201
	Cotober	8,583	1,566	4,380	453	3,627	-601	~259
	November	8,586	1,814	4,046	271	3,774	-256	-86
	December	8,585	1,623	4,137	165	3,971	-252	82
	AVERAGE	8,572	1,609	4,396	256	4,141	-336	46
982	January	8,669	1,712	3,648	170	3,478	-159	-77
	February	8,690	1,715	2,949	159	2,790	-213	-8
	Merch	8,597	1,702	2,856	185	2,671	-235	170
	April	8,852	1,887	2,813	190	2,623	-233	341
	May	8,680	1,725	3,314	204	3,110	-178	225
	June	8,681	1,875	3,782	105	3,678	-106	191
	July	8,649	1,715	4,245	97	4,147	~97	-58
	August	8,701	1,699	3,820	208	3,611	-208	-233
	September	8,733	1,707	3,603	139	3,463	-143	395
	Optober	8,676	1,677	3,636	216	3,420	-216	-348
	November*	8,690	1,687	R 3,863	R 180	FI 3,883	R -179	H-177
	December**	8,660	1,683	3,023	145	2,878	-129	3
	AVERAGE	8,671	1,685	3,468	167	3,299	-174	34

Supply

<sup>1</sup> Includes lesse condensate.

P Includes shipments from United States possessions and territories. A negative number indicates an increase in stocks and a positive number indicates a decrease.

Strategic Petroleum Reserve. Totals may not equal sum of components due to independent rounding.

NA = Not evaleble. R = Revised deta. \* See Explanatory Note 5,2.

<sup>\*\*</sup> Itelics denote preliminary data. See Explanatory Note 2.7. Note. Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage. Geographic goverage: The 50 United States and the District of Columbia Sources: See "Sources" at the end of this section.

Crude Oil<sup>1</sup> Supply and Disposition ( continued )

		Supply (C	ontinued)	Diepo	eltion	Ending Stocks		6 <sup>2</sup>
		Unac- counted for Crude Oil	Crude Used Directly and Losses	Refinery Inputs	Exporte <sup>3</sup>	Total Crude Oil	SPR <sup>4</sup>	Other Primary
			Thousend 8-	errels per Dey	,	Mi	lons of Ben	els
1973	AVERAGE	3	-32	12,431	2	242		242
1974	AVERAGE	-25	-28	12,133	3	285		266
1975	AVERAGE	17	-30	12,442	6	271		271
1978	AVERAGE	77	-33	13,418	8	285		285
1877	AVERAGE	-8	-30	14,602	50	348	7	349
1878	AVERAGE	-57	-30	14,739	158	376	87	308
1979	AVERAGE	-11	-29	14,648	235	430	91	339
1980	AVERAGE	34	-28	13,481	287	466	108	359
1981	Jenuery	113	-49	13,247	339	488	112	374
	February	-41	-68	12,902	198	494	116	378
	Merch	154	-63	12,383	210	514	121	393
	April	51	-62	12,001	198	532	134	397
	May	265	-82	12,309	312	544	150	394
	June	49	-56	12,415	123	548	183	385
	July	147	-85	12,261	257	559	173	386
	August	16	-63	12,908	204	547	185	362
	September	-295	-86	12,506	194	556	199	353
	Ootober	188	-66	12,057	228	579	215	384
	November	279	-68	12,240	278	589	223	368
	December	52	-67	12,349	169	594	230	363
	AVERAGE	83	-63	12,470	228			
1982	January	-138	-66	11,638	238	606	235	371
	February	199	-66	11,252	304	612	241	371
	Merch	278	-88	11,277	321	614	249	366
	April	68	68	11,388	174	611	256	355
	May	105	-65	11,801	262	609	281	348
	June	110	57	12,498	94	607	264	343
	July	1	63	12,447	229	612	267	345
	August	140	-59	11,858	304	625	274	352
	September	-218	-59	12,128	184	616	278	340
	October	324	-53	11,750	270	835	235	351
	November*	-141	-52	R 11,741	262	R 846	R 290	R 358
	December**	NA	NA	11,772	NA	648	293	354
	AVERAGE	NA	NA	11,798	NA			

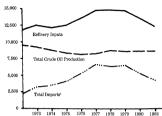
<sup>1</sup> Includes lease condenseta.

<sup>&</sup>lt;sup>2</sup> Ending stocks for 1973-1960 ere totels as of December 31.

Includes shipments to United States possessions and territories.
 Strategic Petroleum Reserve.

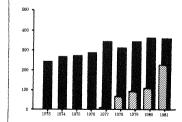
<sup>4</sup> Streigic Petroleum Reserve. Totals may not equal sum of componente due to Independent rounding. NA = Not evalidate. If = Revised debt. "I Belica denote prefinition" debt. See Explanatory Note 2.7. Geographic cowirege: The 50 United States and the District of Columbia. Scuruces: See "Sources" at the and of this section.





"Includes SPR imports. Source table: "Crude Oil Supply and Disposition."

Crude Oil Ending Stocks, Annual (Millions of Barrels)



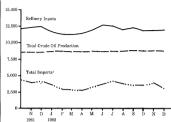
Other Primary

Legend

ZZ SPR

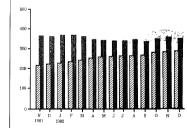
Source table: 'Crude Oil Supply and Disposition."





cludes SPR imports. urce table: "Crude Oil Supply and specition."

## Crude Oil Ending Stocks, Monthly (Millions of Barrels)



Other Primary

Average Stock Range

gend

verage stock range (excluding SPR) sed on 3 years of data. See planatory Note 2.5. aree table: "Crude Oil Supply and specition."

### Finished Motor Gasoline Supply and Disposition

			Supply			Diep	nosition		Ending	Stocks
						,	roduct Supplie	ed		
		Produc- tion	Imports1	Stock With- drawai <sup>1 2</sup>	Exports	Total	Uniseded	Unlauded	Total Motor Gasoline <sup>3</sup>	Finished Meter Gesoilne
				Thousand Be	rrels per Day			Percent of Total	Millions	of Barrols
1973	AVERAGE	6,535	134		4	8,674	NA	NA	209	
1974	AVERAGE	8.360	204	-24	2	8.537	NA.	NA	218	
1975	AVERAGE	8,520	184	-28	2	6.675	NA	NA	235	
1878	AVERAGE	6.841	131	10	3	6,978	NA.	NA	231	
1877	AVERAGE	7.033	217	-72	2	7,177	1,976	27.5	258	
1978	AVERAGE	7,169	190	54	1	7.412	2,521	34.0	238	
1979	AVERAGE	6.852	181	2	(9)	7.034	2,798	39.6	237	
1980	AVERAGE	6,506	140	-66	1	6,579	3,087	48.8	261	
1981	January	6,715	138	-421	(*)	6,431	3,141	48.8	276	227
	February	6,308	111	-118	1	6,301	3,085	49.1	284	230
	March	6,213	171	-81	(9)	6,303	3,087	49.1	285	232
	April	6,114	188	303	(9)	6,602	3,284	48.7	272	223
	May	6,122	150	344	1	6,815	3,115	47.1	268	213
	June	8,220	186	622	1	7,028	3,419	48.6	242	194
	July	6,405	151	268	(9)	6,823	3,424	50.2	228	186
	August	6,611	124	-85	3	6,637	3,344	50.4	233	188
	September	6,564	169	-70	2	6,662	3,338	50.1	237	191
	October	6,426	147	7	3	8,578	3,257	49.5	236	190
	November	6.564	148	-338	1	6.373	3,198	50.2	248	201
	Decamber	6,586	197	-91	11	8,681	3,444	51.5	253	203
	AVERAGE	6,405	157	28	2	8,588	3,284	49.5		
1882	Jenuery	6,181	114	-358	18	5,920	3,033	51.2	262	214
	February	5,917	133	28	8	6,070	3,145	51.8	262	213
	March	6,004	183	469	44	8,612	3,396	51.4	248	199
	April	6,104	177	641	33	6,890	3,494	50.7	223	180
	May	6,322	163	188	23	6,650	3,415	513	215	174
	June	6,767	195	-138	14	6,812	3,561	52.3	220	178
	July	6,788	200	-165	24	6,799	3,574	52.6	226	183
	August	6,447	264	-60	16	6,655	3,520	52.9	226	185
	September	6,530	215	-217	22	6,507	3,365	52.0	234	191
	October	6,253	177	-25	15	6,391	3,360	52.6	234	102
	November*	H 6,273	208	91	.11	R 6,559	3,448	52.6	R 230	188
	December**	6,447	NA.	NA	NA	6,239	NA	NA	237	NA
	AVERAGE	€,339	NA.	NA	NA.	6,510	NA.	NA		

\_\_\_\_\_

Beginning in 1981 excludes blanding components.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 Includes motor gescribe blanding components Entling stocks for 1973-1980 are totals as of December 31.

<sup>4</sup> Includes gasohol.

Totals may not equal sum of components due to independent rounding.

(Y) = Less than 500 berrels. NA = Not evaliable. R = Revised data.

See Explanatory Note 5.3.

See Explanatory Note 5.3.
 Italics denote preliminary dela. See Explanatory Note 2.7.
 Notes: Beginning in January 1981, survey forms were modified. See Explanatory Note 4 on Changes

for the effects on motor gescind statistics.

Annual stock changes for 1975 and 1981 were calculated using expended survey coverage.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

## Distillate Fuel Oil Supply and Disposition

			94	ipply		Diep	eltion	Ending Stocke
		Total Production	Importe	Stock Withdrawai?	Crude Used Directly	Exporte	Product Supplied	
				Thousand Ben	reis per Day			Millions o Barrels
973	AVERAGE	2.822	392	-116	2	9	3,092	196
974	AVERAGE	2,869	290	-6	2	2	2,948	200
975	AVERAGE	2,654	155	40	2	ī	2,851	208
978	AVERAGE	2,824	146	62	ī	1	3,133	186
977	AVERAGE	3,278	250	-176	i	1	3,352	250
978	AVERAGE	3,167	173	93	1	3	3,432	216
979	AVERAGE	3.153	193	-34	i	ä	3,311	229
980	AVERAGE	2,682	142	84	i	i	2,868	206
1981	Jenuary	2,989	273	836	11	(9)	4,109	179
	February	2,809	325	248	11	17	3,373	173
	Merch	2,484	147	264	9	(9)	2,904	164
	April	2,418	116	-8	10	3	2,532	165
	May	2,454	179	-232	10	(9)	2,411	172
	June	2,501	225	-270	9	(9)	2,464	180
	July	2,396	179	-204	10	. 2	2,378	186
	August	2,656	174	-460	8	(9)	2,388	200
	September	2,610	129	-235	10	· · · · · · · · · · · · · · · · · · ·	2,613	207
	October	2,485	119	197	6	5	2.803	201
	November	2,716	124	36	11	8	2,880	200
	December	2,856	96	277	11	26	3,212	182
	AVERAGE	2,813	173	38	10	5	2,829	
982	January	2,615	96	780	10	90	3,410	166
	February	2,447	130	688	11	90	3,187	147
	March	2,294	48	812	10	84	2,881	128
	April	2,357	59	631	13	84	2,886	108
	May	2,618	74	-184	10	75	2,444	114
	June	2,731	100	-335	10	55	2,450	125
	July	2,734	124	~761	11	24	2,084	146
	August	2,526	79	-346	10	40	2,228	156
	September	2,658	56	-77	12	139	2,514	161
	October	2,837	97	-290	8	66	2,586	170
	November*	R 2,863	R 141	R-514	8	24	R 2,475	P186
	December**	2,706	147	32	NA	NA	2,790	181
	AVERAGE	2.616	98	15	NA	NA.	2,967	

<sup>1</sup> Ending stocks for 1973 - 1980 are totals as of December 31.

A negetive number indicates en increase in stocks end a positive number indicates a decreesa.

Totals may not equal sum of components due to independent rounding. (9) — Less than 500 barrels per day. NA — Not available. R — Revised date.

\* Sea Explanatory Note 5.4.

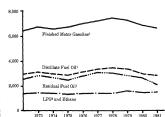
<sup>\*\*</sup> Italics denote prelimitary data. See Explanatory Note 2.7.

Note: Beginning in January 1961, survey forms were modified. See Explanatory Note 4 on Changes for the affects on Distillate Fuel Oil statistics.

Annual stock changes in 1975 and 1981 were oskulated using expanded survey coverage. Geographic coverage: The 50 United States and the District of Columbia.

Sources: Sea "Sources" at the end of this section.

## Products Supplied, Annual (Thousand Barrels per Day)

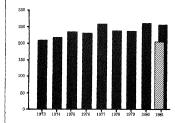


Figures for 1979 and 1980 recast to account for data system changes in 1981. See Explanatory Note 4.

\*Liquefied Petroleum Gases.

Source tables: "Finished Motor Graedine Supply and Disposition," "Distillate Fuel Oil Supply and Disposition," "Essitus Fuel Oil Supply and Disposition," "Liquefied Petroleum Gases and Ethane Supply and Disposition."

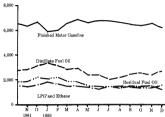
## Motor Gasoline<sup>1</sup> Ending Stocks, Annual (Millions of Barrels)



Legend
Total
Finished

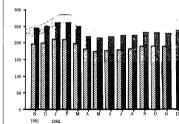
Uncludes finished motor gasoline blending components. Source table: "Finished Motor Gasolina Supply and Disposition."





Liquefied Petroleum Gases, ourse (sables: "Pinished Motor asoline Supply and Disposition," Distillate Poel Oil Supply and isposition," "Escidoal Fuel Oil Supply and Disposition," "Esquefied Petroleum asses and Ethane Supply and isposition."

### Motor Gasoline Ending Stocks, Monthly (Millions of Barrels)



Total Motor Gasoline

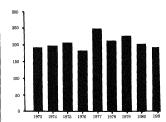
Zi Finished Motor Gasoline

Average Stock Range\*

.egend

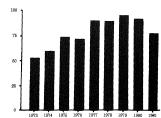
ncludes finished motor gasoline ending components, werage stock range for total motor asoline based on 3 years of data. See xplanatory Note 2.6, ource table: "Finished Motor Gasoline upply and Diaposition."

Distillate Fuel Oil Ending Stocks, Annual (Millions of Barrels)



Source table: "Distillate Fuel Oil Supply and Disposition."

### Residual Fuel Oil Ending Stocks, Annual (Millions of Barrels)



Source table: "Residual Fuel Oil Supply and Disposition."

## .egend

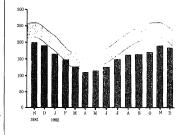
Average stock range based on 3 years of lata. See Explanatory Note 2.5. Source table: "Distillate Fuel Oil Supply and Disposition."



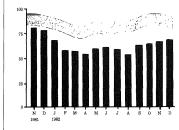
"Average stock range based on 3 years of iata. See Explanatory Note 2.5. Source table: "Residual Fuel Oil Supply

and Disposition."

#### Distillate Fuel Oil Ending Stocks, Monthly (Millions of Barrels)



# Residual Fuel Oil Ending Stocks, Monthly (Millions of Barrels)



#### Regidual Fuel Oil Supply and Disposition

			Su	ppty		Dispe	peltion	Ending Stocke <sup>1</sup>
		Total Produc- tion	Importe	Slock Withdrawai <sup>2</sup>	Crude Used Directly	Exporta	Producta Supplied	
				Thousand Ba	rreis per Dey			Milhons of Barrels
1973	AVERAGE	971	1.853	5	17	23	2.822	53
1974	AVERAGE	1,070	1.587	-17	13	14	2,639	60
1975	AVERAGE	1,235	1,223	2	15	15	2,482	74
1975	AVERAGE	1,377	1,413	5	17	12	2,801	72
1977	AVERAGE	1,754	1,359	-48	13	6	3,071	90
1978	AVERAGE	1,587	1,355	-1	13	13	3,023	90
1979	AVERAGE	1,687	1,151	-15	12		2.826	96
1960	AVERAGE	1,580	839	10	12	33	2,508	92
1000	AVERAGE	1,000	639	10	12	33	2,300	
1981	January	1,612	1,015	302	32	65	2,896	82
	February	1,565	854	150	44	125	2,588	78
	March	1,424	698	100	48	145	2,126	75
	April	1,320	584	66	49	151	1,868	73
	May	1,223	741	-170	49	25	1.817	78
	June	1,232	540	291	49	76	2.037	69
	July	1,174	630	2	48	82	1.971	6.9
	August	1,231	819	-179	50	69	1.852	75
	September	1,292	841	-178	51	126	1,882	80
	October	1,238	786		54	202	1.884	80
	November	1,227	880	-49	53	203	1,909	81
	December	1,329	916	110	52	157	2,250	78
	AVERAGE	1,321	800	37	48	118	2,088	
1982	January	1.183	821	328	53	235	2,150	68
	Fobruary	1.136	928	358	53	213	2.261	58
	March	1.121	910	28	53	197	1,912	57
	April	1,162	762	124	52	234	1,867	54
	May	1,127	738	-175	52	191	1,551	59
	June	1.077	643	-49	59	217	1,504	61
	July	1,029	576	51	49	239	1,466	59
	August	1.007	519	200	47	235	1,530	53
	September	1,607	871	-302	ü	148	1.472	62
	October	954	758	-56	43	234	1.466	64
	November*	FI 989	R 843	R-95	43	182	B 1.597	P 66
	December.	1,032	558	-148	NA.	NA NA	1,297	68
	AVERAGE	1,088	742	20	NA.	NA	1,669	

Enoling Stocks for 1973-1980 are totals as of December 31.
 A negative number indicates an increase in stocks and a positive number indicates a decrease. NA = Not available. R = Revised data.

NA = Not avsilable. R = \* See Explanatory Note 5 4.

<sup>\*\*</sup> Italies denote preliminary date. See Explansiony Note 2.7.

Notes: Beginning in January 1981, survey forms were modified See Explanatory Note 4 on changes for the offects on residual fuel oil stehistics

Annual stock of thinges for 1975 and 1981 ware calculated using expended survey coverage. Geographic Coverage. The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

#### Liquefied Petroleum Gases and Ethane Supply and Disposition

			Supply	,		Disposition	,	Ending Stocke
		Total Production	Importe	Stock Withdrawai?	Rofinery Inpute	Exporte	Product Supplied	
				Thousand Ba	rrels per Day			Millions of Barrels
1973	AVERAGE	1,600	132	-35	220	27	1,449	96
1974	AVERAGE	1,565	123	-38	220	25	1,408	113
1975	AVERAGE	1,527	112	-35	246	26	1,333	125
1978	AVERAGE	1,535	150	24	260	25	1,404	116
1977	AVERAGE	1,568	161	-55	233	18	1,422	136
1978	AVERAGE	1,537	123	12	239	20	1.413	132
979	AVERAGE	1,556	217	70	236	15	1,592	111
880	AVERAGE	1,535	216	-27	233	21	1,409	120
981	January	1,617	306	363	352	21	1,913	11
	February	1,583	327	173	303	21	1,789	11:
	Merch	1,561	260	-4	257	20	1.530	111
	April	1,586	214	-236	231	28	1,308	111
	May	1,587	189	-258	220	19	1,279	12
	June	1,557	205	-208	237	24	1,304	130
	July	1,597	213	-258	215	17	1,229	14
	August	1,582	195	-242	235	149	1,160	148
	September	1.622	199	-75	297	21	1,438	15
	October	1,593	287	72	320	76	1,558	14
	November	1.571	280	86	383	58	1.495	146
	Decumber	1,468	255	379	428	50	1,624	138
	AVERAGE	1,571	244	-18	269	42	1,468	
982	January	1,546	314	480	398	67	1,873	12
	February	1,476	291	310	327	51	1,699	11-
	March	1,523	223	145	289	74	1,528	101
	April	1,506	168	107	257	77	1,527	108
	May	1,583	186	-61	235	43	1,431	108
	Juna	1,571	192	-109	262	106	1,295	11
	July	1,556	227	-6	253	37	1,487	111
	August	1,591	125	-44	254	61	1,357	11:
	September	1,606	247	33	273	85	1,528	11
	October	1,582	194	92	306	81	1,481	101
	November*	1,603	207	172	370	37	1,634	10:
	AVERAGE	1,564	222	101	293	86	1,529	

<sup>1</sup> Ending stocks for 1973 - 1980 ere totals as of December 31.

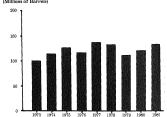
<sup>2</sup> A negative number indicates an increase in stocks and a positive number indicates a decrease. Totals may not equal sum of components due to independent rounding

<sup>\*</sup> See Explanatory Note 5.5.

See Explanatory Note 5.b.
 Note: Annual stock changes for 1975 and 1081 were calculated using expanded survey coverage.
 Geographic coverage: The 50 United States and the Citatret of Columbia.
 Sources: See "Sources" at the end of this section.

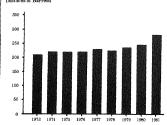
sources: See "Sources" at the end of this section.

Liquefied Petroleum Gases and Ethane Ending Stocks, Annual (Millions of Barrels)



Source table: "Liquefied Petroleum Gases and Ethane Supply and Disposition."

### Other Petroleum Products<sup>1</sup> Ending Stocks, Annual (Millions of Barrels)



Includes natural gasoline and isopentane, unfinished oils, gasoline blending components, jet fuels, kerosene, lubricants, and asphalt. Some gasoline blending components not included prior

o 1981.

Source table: "Other Petroleum Products Supply and Disposition." Legend Average Stock Range

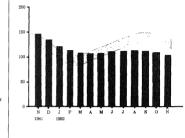
Average stock range based on 3 years of data. See Explanatory Note 2.5. Source table: "Liquefied Petroleum Gases and Ethane Supply and Disposition."

Legend Average Stock Range

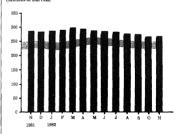
Includes natural easoline and lubricants, and asphalt. data. See Explanatory Note 2.5.

isopentane, unfinished cils, gasoline blending components, jet fuels, kerosene, Average stock range based on 3 years of Source table: "Other Petroleum Products Supply and Disposition."

Liquefied Petroleum Gases and Ethane Ending Stocks, Monthl (Millions of Barrels)



Other Petroleum Products1 Endings Stocks, Monthly (Millions of Barrels)



Other Petroleum Products' Supply and Disposition

			Supply			Disposition		Ending Stocke <sup>2</sup>
		Total Produc- Tion	Imports	Stock Withdraws <sup>(2)</sup>	Rotinery Inputs	Exports	Producte Supplied	
				Thousand Ba	rzels per Døy			Millions of Barrels
1973	AVERAGE	3.893	502	-9	750	186	3,270	208
1974	AVERAGE	3,558	432	-28	865	174	3,123	218
1975	AVERAGE	3,424	277	-2	537	160	3,002	219
978	AVERAGE	3,643	206	-5	524	175	3,145	220
1977	AVERAGE	3,912	205	-27	514	185	3,410	230
1978	AVERAGE	4.046	168	14	492	167	3,568	225
1979	AVERAGE	4,153	195	-37	352	208	3,746	238
1880	AVERAGE	3,956	210	-23	311	198	3,834	247
981	January	3,821	162	80	851	132	3,081	296
	February	3,723	182	-200	538	208	2.958	305
	March	3,722	230	-65	642	210	3,043	304
	April	3,711	230	24	733	192	3,040	303
	May	3,892	229	-68	594	238	3,231	305
	June	3,925	218	-29	656	197	3,261	306
	July	3,852	149	284	791	212	3.282	297
	August	3,876	276	-33	878	218	3,225	208
	September	3.718	285	215	883	176	3.159	201
	October	3,503	241	183	710	227	3,000	285
	November	3,579	262	23	784	154	2,935	284
	December	3,543	243	71	805	223	2,829	282
	AVERAGE	3,739	226	48	723	199	3,088	
1982	Jenusry	3,181	240	-102	602	180	2,536	284
	Februery	3,364	260	-116	646	138	2,724	287
	Merch	3,485	241	-204	734	161	2,827	294
	April	3,394	287	81	801	204	2,767	291
	May	3,296	309	198	823	210	2,789	285
	June	3,481	315	115	815	218	2,879	281
	July	3,578	391	15	862	187	2,635	281
	August	3,519	329	256	841	202	3,060	273
	September	3,442	365	74	767	213	2,901	271
	October	3,472	367	223	901	266	2,896	264
	Navember*	3,464	406	-12	824	269	2,766	264
	AVERAGE	3,425	319	50	784	205	2,808	

Includes netural gesoline and isopentiane, unfrectionated stream, plant condensate, other liquids; and all linished petrolium products except implied motor gesoline, distillate

fuel cil, and residual fuel cil.

<sup>&</sup>lt;sup>2</sup> Ending Stocks for 1973-1960 are totals as of December 31.

<sup>3</sup> A negative number indicates an increase in stocks and a positive number indicates a decrease. Totals may not equal sum of components due to independent rounding.

<sup>\*</sup> See Explenetory Note 5.8. Note: Annual stock changes for 1975 and 1981 were calculated using expended survey coverage. Geographic Coverage. The 50 United States and the District of Columbia. Squiçes: See "Sources" at the end of this section.

Crude Oil and Petroleum Product Imports from OPEC Sources

	Algeria	Libya	Seudi Arable	United Arab Emirates	Indonesia	tren	Nigeria	Venezue-	Other OPEC <sup>1</sup>	Total OPEC	Total Arab OPEC <sup>2</sup>
					Thouse	nd Barrels	per Day				
1973 AVERAGE	138	164	488								
1974	136	104	488	71	213	223	459	1,135	106	2,993	915
AVERAGE 1975	198	4	481	74	300	459	713	979	88	3,289	752
AVERAGE	282	232	715	117	390	280	762	702	122	3,601	1,383
AVERAGE 1977	432	453	1,230	254	539	298	1,025	700	134	5,066	2,424
AVERAGE 1978	559	723	1,380	335	541	535	1,143	690	287	6,193	3,186
AVERAGE	849	854	1,144	385	573	555	918	645	226	6,751	2,983
AVERAGE 1980	636	658	1,356	281	420	304	1,080	690	212	5,837	3,068
AVERAGE	488	654	1,261	172	348	9	867	481	130	4,300	2,551
1981											
January	341	500	1,264	93	424	0	908	549	27	4,127	2,219
February	381	468	1,122	93	406	0	866	463	92	3,891	2,084
March	352	485	1,027	47	328	0	771	360	54	3,425	1,912
April	263	485	1,034	89	307	0	812	237	39	3,245	1,887
Mey	393	443	933	17	297	0	664	331	124	3,203	1,796
June	358	380	885	66	367	0	526	248	118	2,922	1,703
July	333	251	1,073	60	340	0	651	486	38	3,233	1,757
August	348	274	1,082	61	377	0	321	523	84	3,070	1,765
September	336	154	1,477	96	371	0	323	359	148	3,264	2,063
October	242	147	1,342	90	427	0	412	389	172	3,220	1,820
Nevember	210	132	1,270	112	353	0	517	535	56	3,184	1,724
December	176	122	1,045	150	400	0	684	411	132	3,129	1,502
AVERAGE	311	319	1,129	61	356	0	625	406	96	3,323	1,848
1982											
January	254	161	077	87	273	0	682	378	128	2,818	1,378
February	139	92	692	79	236	0	579	347	102	2,267	1,044
March	91	37	555	155	200	0	503	399	91	2,032	660
April	85	0	479	122	215	0	427	411	79	1,818	707
May	179	0	601	116	236		211	414	64	1,811	897
June	93	0	593	94	215	72	537	361	110	2,076	799
July	122	0	644	123	327	69	910	349	95	2,840	927
August	170	0	489	133	272	27	542	288	134	2,057	807
September	162	0	432	57	191	21	479	514	52	1,907	859
October	249	7	494	61	227	103	291	496	96	2,029	810
November	247	13	489	47	283	34	480	539	115	2,248	795
AVERAGE	183	28	577	98	243	30	611	409	98	2,156	880

<sup>&</sup>lt;sup>1</sup> Includes Equation, Geboni, Iraq, Kuwalt, and Cetar.
<sup>2</sup> Includes Agaris, Libya, Saudi Arabia, United Arab Emzales, Iraq, Kuwalt, and Calter.
Totals may not equal sum of components due to Independent rounding.
Note: Begigning in October 1977, Strategic Petroloum Reserve imports are Included. Rouse Segretting in Colour 1st7, Galaxy Personal Reserve Imports at Geographic coverage: The 60 United States and the Elistrict of Columbia. Sources: See "Sources" at the end of this section.

Crude Oil and Petroleum Product Imports from Non-OPEC Sources

	Bahamae	Canada	Mexico	Netherlands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico <sup>1</sup>	Virgin lelande	Other?	Total
				Tho	ousand Barr	als per Day				
973										
VERAGE 974	174	1,325	16	685	285	15	99	329	465	3,26
VERAGE 975	104	1,070	9	511	251	9	90	391	340	2,63
VERAGE 978	152	948	71	332	242	14	90	408	300	2,45
VERAGE 1977	118	599	97	275	274	31	58	422	353	2,24
VERAGE	171	617	179	211	289	126	106	466	680	2,61
VERAGE	160	487	319	229	253	190	84	429	484	2,61
VERAGE	147	538	439	231	190	202	92	431	648	2,61
VERAGE	79	455	533	225	178	176	99	369	491	2,60
961										
enuery	39	643	401	198	150	233	69	494	652	2.70
ebruary	84	546	437	227	163	271	46	481	628	2,8
Merch	74	472	498	227	93	283	45	370	571	2.84
Noril	68	412	418	186	139	402	40	345	360	2,4
vev	122	365	522	213	106	366	58	344	474	2.5
lune	51	353	538	198	124	397	67	262	525	2.5
luly	77	382	384	212	176	563	50	206	541	2.5
August	69	378	469	255	123	592	88	184	539	2.8
September	111	423	708	163	169	528	72	285	851	3.1
October	63	449	669	161	121	351	AD	303	582	2.7
Vovember	63	547	628	168	108	253	78	294	421	2.5
December	70	501	587	148	125	280	73	367	583	2,7
AVERAGE	74	447	522	197	193	376	62	327	534	2,6
1992										
fanuary	28	509	426	179	106	346	62	334	425	2,4
earunry	50	533	489	221	120	132	38	354	487	2,43
March	43	435	503	189	118	293	62	307	479	2,42
April	87	357	467	180	186	247	36	288	682	2,46
Asry	76	416	767	152	95	516	47	302	803	2,9
une	32	462	787	141	129	539	58	322	673	3,1
uly	30	527	783	156	111	433	36	389	674	3,12
August	88	435	854	145	108	520	24	320	627	3,06
optember	92	484	897	195	89	831	51	270	744	3,4
Datober	45	458	662	148	109	688	52	262	763	3,2
dovember	48	547	860	203	90	623	61	334	694	3,46
VERAGE	53	489	515	173	113	452	50	313	625	2.93

<sup>1</sup> U.S. Dosestrico.

Thousand the MonOPEC countries scropt those shown above.

Thinkings all all MonOPEC countries scropt those shown above.

Teclain may not equal stem of components due to independent nounding.

Note: Beganning to Outcher 1977, Tetratop Peterleum Reserve imports ere included.

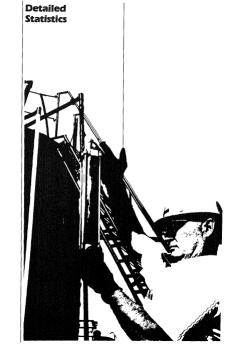
Beganning to Countrie Countries.

The Outching Countries of the cold of this suition.

#### Sources

- 1973 through 1976: Bureau of Mines, U.S. Department of the Interior, "Petroleum Statement, Annual" and PAD Districts Supply/Demend, Annual," Mineral Industry Surveys.
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, "Monthly Petroleum Statistics Report," (unleaded gasoline category).
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual, "Energy Date Records."
- Jenuary 1981 through December 1981: Energy Information Administration, U.S. Department of Energy, "Petroleum Supply Annual."
  - January 1982 through November 1982: Detailed statistics in this issue. (See Explanatory Notes 5.1 through 5.8).
- Dacember 1962: Retirnstee based on ElA weekly data (except domestic crude oil production). See Explanatory Note 2.25.
- January 1982 through December 1982: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey, (See Explanatory Note 2.7).







Teble 1. U.S. Patroleum Balanca, November 1982

		Curren	t Month.	Year-to	-Date
		Thousand Basels	Thousand Barrels per Day	Thousand Berrols	Thousand Barrel
			m		Day Long
	ude Oli (Including Leeve Condensate) Field Production				
	Merist	E 49.995	1,667	E 167.215	1,690
a	Lower 48 States	E 210,715	7,024	E 2 329 297	6,974
í.	Total U.S.	E 280.710	8,690	E 2,898,512	8,672
۰,	Net irrents	C 200(210	0,010	- 1/600/215	0,012
່ເ	Imports (Gross Excluding SPR)	110,490	3,663	1.115,082	3.339
î	SPR Imports			58.362	
1	Epods	5,387	180 282	80,362	169
7	Imports (Net Including SPR)	7,859 106,018		1,091,135	240
η.	Other Sources	108,018	9,801	1,091,135	3,267
, `	SPR Withdrawal (+) or Addition (-)			-59.622	
ő	Other Stock Withdrawel (+) or Addition (-)	-6,371	-179		-179
Į.	Cities Stock Withdrawel (+) or Addition (-)	-6,325	-177	7,437	22
9	Used Directly and Losses	-1,560	-52	-20,807	-62
Ú	Unaccounted for 1	-4,239	-141	26,823	90
a	Total Other Sources	-18,495	-550	-45,160	-138
9,0	sude input to Refineries	252,212	11,741	3,941,478	11,801
(11	a) = (a) + (r) + (r2)				
N	Nutel Gas Plant Liquids (NGPL)				
9 1	Field Production	49,017	1,834	518,391	1,548
0	Imports 2	1,179	30	7,523	23
) :	Stock Withdrewel (+) or Addition (-) 2	-946	-33	3,134	9
)	Total NGPL Supply	49,200	1,640	527,048	1,578
	her Liquids Intellets Clis and Gasoline Blanding Components, Total				
0	Stock Withchewel (+) or Addition (-)	3,242	108	8,857	27
0	Imparis	8,790	224	56,271	168
) '	Other Hydrocarbons and Alcohol New Supply (Field Production)	1,526	53	17,681	53
) (	Retinery Processing Gain 1	17,122	671	174,092	521
١,	Crude Used Directly	1,513	60	10,798	59
į.	Total Other Liquids	30,208	1,007	276,899	828
	(23) = (18) through (22)				
) To	otal Preduction of Products 3	431,634	14,388	4,745,225	14,207
Si I	t Imports of Relined Products 9 Imports (Gross)	48.000	1,600	483,619	1.389
ñ i	Exects	15,721	524	190.540	571
7 '	Insports (Net)	10,743	1,078	272,971	817
,	sopals (res)	28,877	1,010	2/2/3/1	617
4 To	otel New Supply of Products	460,911	16,464	\$,018,198	15,025
	ii) = (A1) + (A7) efined Products Stock Withdrawal (+) or Addition (+) ii	-12.999	-432	65.887	218
n Te	otel Petroleum Products Supplied for Damestic Use	450,942	18,031	\$,000,883	15,230
(3C	1) = (28) + (25)	,.			
) To	1) = (28) + (26) Finished Motor Gasoline	198,783	8,559	2.183,254	0.837
) To (30	I) = (28) + (24) Finished Motor Gasoline	198,783	8,559 212	2.183,254 89.102	6,837 207
) To	I) = (88) + (24) Finished Motor Gasoline Napshin-Typo Jol Fuel Korosne-Typo Jol Fuel	198,783 8,348 25,078	8,559 212 836	2,183,254 89,102 288,448	6,837 207 798
(3C	T) = (28) + (24) Flishhed Motor Gasoline Najshha-Typo Joe Fluid Karosene-Typo Joe Fluid Karosene	198,781 8,348 25,078 4,195	8,559 212 895 140	2.183,254 89,192 288,448 40,985	6,837 207 708 123
9 To	Ti — (28) + (24) Fisikhed Meter Glescline Hejstiha-Type Jol Fluid Geroeme-Type Jol Fluid Deptider Fluid (20)	198,783 8,348 25,078 4,196 74,248	8,559 212 835 140 2,475	2,183,254 89,192 266,448 40,965 888,301	6,837 207 708 123 2,680
To (30	7) = (P8) + (24) Flishhed Motor Gasciline Naphith Type Joe Fluid Karpenen-Type Joe Fluid Karpenen-Type Joe Fluid Karpenen-Type Joe Fluid Charliane Fluid Cill Repatial (Fluid Cill Repatial (Fluid Cill	198,783 8,948 25,078 4,195 74,248 47,913	8,559 212 995 140 2,475 1,597	2,183,254 83,102 266,448 40,965 686,301 689,537	6,837 207 798 123 2,680 1,703
(3C	13 — (29) + (24) Fishahe Motor Gascline tepsinis—Type Joh Fluid Gordene Gordene Find John Gill Gordene	198,783 8,948 25,078 4,190 74,248 47,913 49,028	8,559 212 896 140 2,475 1,897	2,183,254 89,192 266,448 40,965 888,301	6,837 207 708 123 2,680
To (30	1 — (29) — (20) Fishesh Meter Gradefre Health Type Jee Fall Gradefre	198,783 8,348 25,078 4,195 74,248 47,913 48,088 54,373	8,559 212 896 140 2,475 1,597 1,894 1,812	2,183,254 83,102 266,448 40,965 686,301 689,537	6,837 207 798 123 2,680 1,703
9 To (30	7 - (29) - (20) Hilbert Motor Gusstine Hyghini- Pipo Jef Full Hyghini- Pipo Jef Full Genomic Pipo Jef Full Jeff Hydrolium Ginese em Silinne Otto	198,782 8,948 25,078 4,196 74,248 47,913 48,028 64,973 -7,023	8,559 212 895 140 2,475 1,587 1,834 1,812 -224	2,183,254 89,192 266,448 40,965 686,001 686,997 506,341 566,461	6,937 207 798 123 2,680 1,703 1,522
9 To (30	7 - (29) - (20) Hilbert Motor Gusstine Hyghini- Pipo Jef Full Hyghini- Pipo Jef Full Genomic Pipo Jef Full Jeff Hydrolium Ginese em Silinne Otto	198,783 8,348 25,078 4,195 74,248 47,913 48,088 54,373	8,559 212 896 140 2,475 1,597 1,894 1,812	2.183,254 89,102 288,448 40,965 888,001 68,967 508,341 568,461 -105,792	0,537 207 798 123 2,640 1,703 1,552 2,001 -320
9 To (30	1 — (29) — (20) Fishesh Meter Gradefre Health Type Jee Fall Gradefre	198,782 8,948 25,078 4,196 74,248 47,913 48,028 64,973 -7,023	8,559 212 895 140 2,475 1,587 1,834 1,812 -224	2,183,254 89,192 266,448 40,965 686,001 686,997 506,341 566,461	6,637 207 766 123 2,640 1,703 1,652 2,001
(30 (30 (30 (30 (30 (30 (30 (30 (30 (30	1 = CRI + CRI Histole Mood Coaster Heighth Fry all Faul  Catalian Free CRI  Catalian Free	198,782 8,948 25,078 4,196 74,248 47,913 48,028 64,973 -7,023	8,559 212 895 140 2,475 1,587 1,834 1,812 -224	2.183,254 B9,102 288,448 40,966 84,901 686,997 506,441 666,461 -106,792 6,088,865	0,537 207 798 123 2,640 1,703 1,552 2,001 -320
9 Te (30	1 = CRI + CRI Highest Moor Gestive Height- Fry and Yul  Letter You'd  Le	198,781 8,948 25,079 4,195 74,248 47,912 48,028 54,273 -7,023 450,942	8,559 212 895 140 2,475 1,587 1,834 1,812 -224	2.183,254 89,102 286,448 40,966 884,001 684,907 505,241 556,461 -105,792 5,068,665	0,537 207 798 123 2,640 1,703 1,552 2,001 -320
9 To (30 )	1 = CRI + CRI Highest beior Crisisole Highest beior Highest beio	198,783 8,348 25,078 4,195 74,248 47,913 48,028 54,373 -7,023 450,842	8,559 212 895 140 2,475 1,587 1,834 1,812 -224	2.183,254 89,102 288,448 40,968 684,301 686,937 504,241 656,461 -106,792 5,088,685	6,837 207 798 123 2,680 1,763 1,632 2,001 -320 15,230
9 To (30 )	1 = CRI + CRI Highest beior Crisisole Highest beior Highest beio	198,783 8,348 25,078 4,176 74,248 47,913 48,028 54,373 -7,023 450,942 358,027 289,033	8,559 212 895 140 2,475 1,587 1,834 1,812 -224	2.183,254 89,102 288,448 40,968 684,301 686,937 504,241 656,461 -106,792 5,088,685	6,837 207 798 123 2,680 1,763 1,632 2,001 -320 15,230
9 To (30 ) 1 (	The CRIT FOR STREET OF THE CRIT CRIT CRIT CRIT CRIT CRIT CRIT CRIT	198,781 8,346 25,079 4,196 74,246 47,913 48,058 64,373 -7,023 450,942 568,027 269,093 111,879	8,559 212 895 140 2,475 1,587 1,834 1,812 -224	2.183,254 89,102 286,448 40,965 881,907 601,941 -105,792 5,088,865 258,967 289,963 111,679	0,837 207 798 123 2,680 1,793 1,622 2,001 -320 15,230
9 To (30 ) 1 (	To CRI 1 (50) The CRI	198,781 8,949 25,078 4,190 74,248 47,915 48,028 64,373 -7,022 460,942 368,027 269,043 111,879 41,243	8,559 212 895 140 2,475 1,587 1,834 1,812 -224	2.183,254 89,102 286,448 40,265 884,307 604,241 -105,792 5,088,665 256,627 289,962 111,679 41,245	0,837 207 796 123 2,640 1,703 1,522 2,001 -320 15,230
1) To (30 )	The CRIT FOR STREET OF THE CRIT CRIT CRIT CRIT CRIT CRIT CRIT CRIT	198,781 8,346 25,079 4,196 74,246 47,913 48,058 64,373 -7,023 450,942 568,027 269,093 111,879	8,559 212 895 140 2,475 1,587 1,834 1,812 -224	2.183,254 89,102 286,448 40,965 881,907 601,941 -105,792 5,088,865 258,967 289,963 111,679	0.887 207 798 123 2.680 1.703 1.682 2.001 -320 15.230

A bearrier fam.

I includes lioperature, regularel geardine, unhaudionated atmost, and plant condensate only.

I includes lioperature, regularel geardine, unhaudionated atmost, and plant condensate only.

I for products familiared, and plant familiared familiared, and familiared, familiared, and familiared, famil

			ā	Sunda					
				Stock		- Contract		Depostoon	
Commodity	Produce	Produc-	imports	drawst (+) or	Counted For Couch	Ornesty	Retnery	Exports	£.
	-		-	Pen (-)	ō	1000037	ļ		8
Crude Oil (Including lesse condensate)	E 269,710	۰	115,676	-10,896	4,240	-1,560	352,232	2.00	
Natural Gas Plant Libeutos and LPGs	48 710	122							
Natural Gasoline and Isopentaria	6,530		9778	40		0 (	17,212	1,115	
United Street	909	c	a	-815	0		,	0 1	
Part Condensate	960	a	8	181-	0	a	1000	a	
Pitane	40,203	7,774	1000	5,156	0	a	11.090		
	8,703	9	9	-500	0	0	ð	8	
	13,818	7,87	3.074	0,010	0	o	Š	9	
!	9079	7	.802	2,943	0	o	7,382	979	
Ethane-Propane Methods	0.00	à	9	7	0	a	368	a	
1	3,183	ę	a o	1,002	00	00	0	0	
Online Charles						•	4.160	0	
Manual Alested	1,585	o	6,730	3,242	٥	۰	18.590	٠	
Liferathad Oils	1,506	e	0	8-	٥	0	1.575		
Motor Garolina Blandon Commonwells	0 0	0	4.90	1,859	0	0	12,040	• •	
		0 0	1,850	131	0	0	5,027	٥	
		•	•	£	0	0	-62	0	
Finished Patroleum Products	306	207,382	20.000	-10 136	٠	0.20	٠		
Firsthad Motor Gasoine	K	188.125	9.184	0.730		2 4		14,500	Ŧ
Prished Landed Motor Gascine.	3	90,865	3.694	-Ras	0 0	9 0	0 0	3	-
Country Change Motor Gasching	9	97,185	2,550	3,664				3	
Shorted Assessed President	٥	æ	0	7		c	0 0	9 6	-
Mandally Tate In Suc	27	670	8	-303	a	d			
Manneson Theories Pro-	٥	5,930	0	388	a			8	
	0	24,436	991	-12	٥	0	• 0	E	
	e4	4,308	1,011	-1,125	0	0	• 0	-	
		65,903	4,22	-16,405	0	25		246	
Merchina C. Alfo Date for Date: The control of	0	29,669	25,297	-2,857	0	1 278		3	
Other Oils - 400 Day for Both Book Line	0	4.567	259	-180	٥	0	• 0	2	
Stand Nardthan	9	6,748	0	12	0	۰	0	600	
Lutropets	8 .	286	929	ä	0	0	0	į	
		000	ē	۳	0	0	0	500	
- Color		9	g.	ę	0	0	0	#	
		12,714	• ;	ş	0	0	0	6.716	
Road Ol		9.00	78.	-164	0	0	o	80	
	0 0	100	0 0	ņ.	0	0	0	0	
Macellaneous Products	9	2000	0.	0	0	٥	٥	0	
	2	1	-	191	0	0	0	8	
Total	311,322	405,156	171,786	-21,419	4240	٩	200.000	00.550	
1 Unaccounted for cride of is a balancing from								70000	٠.
2 Total equals refinery foat use and lozs.									
(9) Liess than 800 barrels.									
Note Tobs may aveal some of consequences to the second									
Sorbits and nethration providence. Sorbits and nethration providence and providen	Debender 100	docu							
and the second s	10005 Oh Create	Collection and	Estruelico						

resear.

obs. may not equal para of components due to independent rounding,
and estimation procedures: See Explanatory Nates on Data Collection and Est
and estimation

3,430,58

Associated for ende of is a balancing

4,301,210

			8	ACCOM				Digweiting	
Connodby	Field Produc- ton	Refinery Produc- tion	Imports	Stock With- drawal(+) Addi-	Unas- counted For Oude	Ouds Directly and	Refresty trputs	Esports	Products Supplied
2nde Oil (Including lesse condensate)	E 8,672		3,507	-188	88	-62	11,807	980	•
Valural Case Plant Liquids and LRGs	20 E	£ 0 0	24 7.0	800 E	000	999	8 E 8	800	572,
Plant Condensate Liquelind Patroleum Gazos and Ehane Ehane	¥ 8 8	° E *	4725	37	000	000	884	S	1,522
Outer Program Motivas Charles	\$8*8£	8= TO	22280	28-24	00000	00000	4E° E	24000	5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Piper Librida  Cher Mytoralicis and Alonial  Liferable City  Materia States Banday Competes  Assert States Banday Competes  Assert States Banday Competes	28000	00000	\$ 0 8 8 0	\$ 78° 8	*****	60000	88887	00000	8000
Theired Petroleum Products Treated Mulor Gaseline Fishing Leady Mate Gaseline Tritising Leady Mate Gaseline	\$ N N	13,128 6,327 3,000 3,321	1,185 167 110 100	\$48°	0000	8000	0000	8220	13,974
Gasobol Frished Awater Gasolina Monthur Toto Jan Fran	0 10 0	e 25 2	3	€	000	000	000	00+	***
For	SE1	EF	82:	*77	900		000		25.2
Naphha < 400 Deg. for Petro. Feed, Use		1,072	28	8-	000	290	000	22.5	1,703
Other Ote > 400 Dep for Peter, Use Special Nighther	000	823	- <b>8</b> 5	T 00 40	000	000	000	8.05	2 × 3
Waters Color	e o	404	-0	8	00	00	00	- 5	- 2
Agrikit Amerikan Salah S	000*	8 . 3 E	e 0 % E	\$ 8 8 8	0000	0000	0000	-00+	888
Total	10,271	13,399	5,086	2	2	7	12,078	110	15,230

	1
	-
	3
	ŝ
	2
	à
	å
	8
	ě
	5
	ē
	4
	0
	ž
	ž
	š
	ĕ
	§.
- 1	ő
	Ĕ
	٠,
	ě
	a
	ğ
	5
۰	Ě

Ending 18,724

Products Supplied

100   100	Company   Comp					9					
Company   Comp	Compared					100					Chance
Col Coloration numerocontent	Column   C	Compathy	Produc	Retney		With	Chase	Chade			
Control but no cont	Comparison of the control of the c		ě	og us	grood;	5 g	P Conte	Descrit,	Recepts	Retmeny Inputs	Export
100   100	Compared to the control of the con	Orude Off (Including leases condensate)	1			100 (-)		Losses			
		National Gas many and a second	500	۰	32,039	-382	-917	•	-		
		Ligantian Detroton and Lings	800		i			•	, C. C.	25,436	
Comparison	The control of the		275	1 186	2	-42	۰	0	2000	010	
100   100	The control of the co		203	•	2	ņ	0	٥	0000	3	7
Comparison of continues   Comparison of Co	The control of the	!	166	• 0		0	0	0		e e	•
The control of the co	The control of the	Other Lifeside		•	148	9	0		0 0	0 !	
The control of the co	The control of the co	Other Midlecarbons and Alexandr	98	0	0.00				•	ē	
The control of the co	The contract of the contract		a	•		230	•	۰	190	9 300	
Compared by Comp	Attention and the control of the con	Motor Gasoine Blending Compounds	0	0	1 701	* :	0	a	°	300	_
The control of the co	The control of the co	Avestion Casoline Blanding Composition	0	٥	74	ě	0	•	596	2.501	
The control of the co	The control of the co		0	0	•	ř	0	0	0	-1 136	
The control of the co	The control of the	Patroleum Products				,	0	0	a	4	
1,000   1,00			ą:	38,846	34,529	-21.804	•	٠			
1,000   1,00	The control of the co		1:	16,581	2,975	-2.301	•	0	94,969	0	10
A Control Cont	The control of the co	Character Unidended Motor Casoline	1.	7.130	8,740	-1.200	0 6	0 4	45,149	0	8
Comparison	10   10   10   10   10   10   10   10	The state of the s	۰.	177	2,733	-040	•		20,211	0	8
Comparison	Comparison   Com			0	0	4	0 6		54,937	0	
The control of the	The control of the co		9.	25	Ξ	101-			0	0	
	The control of the	ype Jet Fuel		\$	0	25		0	150	0	
100   100	100   100		0.	579	198	260	> <	0	Z	0	8
Comparison	The control of the co		01	332	1,011	-1311	9 6		10,442	0	:
Control of Property   Control of Control o	The control of the co			10,248	122	-10.000			722	0	10
	The continue of the continue		0	4,050	22,780	1,505		0	22,780	0	
100   100							,	D	2,859	0	
The control of the co	Total Control		ь.	92	83	186	•	•			
Compared	The control of the co		۰.	-112	988	310	•		\$	0	4
The state of the s	The control of the co	1		e e e	2117	-916			B.	0	•
1	The control of the co	Turbeilli Colo	0	90	8		> <	0.	330	0	103
The control of the co	15   15   15   15   15   15   15   15	Agragia	0	1,167	0	-046	> <	0	13	0	
Commission   Com	The control of the co	PART OF THE PART O	0	2321	125	-346	> 0		0	0	
The state of the s	A STATE OF THE PROPERTY OF THE		0	٥	0	•	0 0		88	0	
A 44 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	440   450		0	1,663	• •			0	0	0	
System 4 (1975) 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,	Comment of the control of the contro		0	448				0	0	0	
13 95,001 -21,988 -917 0 90,072 37,918 2 referedab	13 95,001 -21,088 -017 0 95,072 57,016 ciderolas	otal				Y	0	0	823		> !
ridersale	10472 37,018		3,720	40.013		.000	1			•	-
And Andrea desta miny has too and box box.  () Less than (See the Control of	3 - Inchaster and Mills also and Volume 1 - Inchaster and Mills and American and Am	2 Tree counted for crude oil is a belancing Hen.			- 1	006/10	ř	0	90,672	37,918	ŭ
(b) Loss than 600 persons coperated, withoutcovered shown, and plant condensate Leftmand.  Estimated in the control of the con	(b) Loss than 600 brown, oxportration, untractionated stress was plant condensate.  Estimated, the modern of components of contractionated stress transfer contractions.  New Contraction on the equal term of components due to trainproperte messes.	3 Includes certain precion									
e institution, and a second se	cophilated. Shibite Total may not equal sum of components due to independent recodes.	(4) Loss than 500 barnels	rear, and plu	int condensa	9						
Nater Total may not equal turn of commonwest and	NAME TOOLS may not explain arm of components due to inskipment memoring. Sources and retinence necessaries to components due to inskipment memoring	E Colleged,									
	Sources and retireation comments and to transportation reviews	Moder Total may not equal sum of composition .									

5,440 5,440 37 18,840 14,160 14,160 14,160 16,1160 16,1160 17,100

43,252 22

Property of the control of the contr	Manna (+) Sept.	Unac- counted Dry Counted Dry Fer Chade Dry S2,374	Onds Closed Process	Mendella 1,574 2,000 2,000 1,235 1,235	Refinery	Sports	- Andrews	i
4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	28 25 25 25 25 25 25 25 25 25 25 25 25 25	\$2,37 4 0000 0000	e eese ooe	£ \$2000 5			Supplied	Stocks
200 200 200 200 200 200 200 200 200 200	2,852 2,852 1,318 1,318 327 86 86 86		0000 000	4.24 8.008 0.22 0.25	78,320	1,207	٥	77,744
200 200 200 200 200 200 200 200 200 200	2522 2524 2514 2514 2514 2514 2514 2514		0000 000	200 S S S	-			
200	2562 25 25 25 25 25 25 25 25 25 25 25 25 25 2	000 00000	000 000	1,235	4000	20	200	21,450
2,1266 17 1.28 1.10 1.28 1.10 1.28 1.10 1.28 1.10 1.28 1.10 1.10 1.28 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10	64 E458	00 00000	00 000	255	4,217	*0	15,195	20,256
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27.478 a		006	92	136.0	00	3,436	1,780
145 0 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 to 15 to 18	00000	006	240	1	,	-6.010	200
Notes	<b>等级等</b>	0000	06		2,044	0	1/9-	28,321
75	327 88 88	000	0	0	110	0	0	88
155 0 0 0 33	<b>8</b> 8	00		0	999	0	-109	19.991
North 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8	0		749	2,010	0	589	8,138
25 85 85 PT			0	0	8	0	0	5
538/84 0	620	c	e	101 01	•	100	*00 004	*** 253
	0656			12.514		÷	42 000	23.00
	900			6.497	•	ě	35 436	20.20
23406	1 625			6.077	c	, •	21.406	960.00
2	*			0				
0	9			121	0	0	19	8
228 0	-33	0	0	169	0	0	1,078	1.328
3,534	80	0	0	1,530	0		5,181	7,075
0 730	160	0	0	246	0	8	1,036	2,736
	-1,007	0	0	3,649	0	2	32,406	45,257
2,993	78	0	0	-463	0	۰	2,802	4,996
ds for Petto Fleed 0 1,270	8	0	0	4	0	38	1,531	18
388	ş	٥	0	33	0	-	999	Š
184	200	0	0	350	0	22	505	1,826
29 0	7	0	0	0	0	8	÷	8
3,014	-245	0	0	0	0	828	2,247	2,003
9,343	-540	0	0	107	0		2,819	4,773
0 9	0	0	0	0	0	0	65	8
3,115	0	0	0	0	0	0	3,115	۰
heducts 12 197	8	0	0	25	0	8	\$25	122
909	-1,137	32,574	۴	24,858	87,748	1,836	124,475	285,278

2) Poboso naming pasion, experitore, urfest poelars, and plant condensate. (P) Lose Sen SSO Damets E Estimated. The compound due to richoporober rounding where Tolar more equal sun of compound due to richoporober rounding. Sources and estimation procedures: Sen Experimary Intels on Dea Collecton and Estimation.

				Strock		į					
Cermodity	Produc- ton	Referen Produc- Son	Imports	40 (+) 20 (+) 20 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	Unac counted For Chude Oats	Daniel Daniel	Net Peccepts	Refinery Imputs	Diports	Products Supplied	Ending Stocks
Crude Oil (Including lease condensate)	138,252	۰	57,447	-11,431	-23,881	Ŧ	16,288	164,642	0	٥	454,362
Metural Gas Plant Lieutite and I Rise	16191	3434	971.0	3303	•	6	***	5	80	17 070	*
Uguefied Potroleum Gases	21.000	3.515	191	2783		• •	29.00	2100	9638	17.671	64.286
Chaco	2,800	8	۰	187	0	0	ľ	Ä	ε	5,973	3.6
Other Products	7,702	0	978	ä	0	۰	-828	4,367		3,826	2.
Other Ligados	444	-	2,407	2000	•	•	-4.712	11.13	•	A 236	346
Other Hediocetons and Alcohol	214		ľ	ľ				400	•	9	•
Unfersibled One	•		2 802	100	• •	• 6	000	6703		21812	88
Motor Gasoline Bending Components	a	• =	714	1 820		0	740	1361		-2.594	17.4
Arienta Gazdina Stending Components	0	0	۰	9	0	0	0	ä	0	8	602
Phished Patroleum Products	400	100,000	4 100	0.484	•	,	-100 000	٠	2 340	200.10	196.2
Product Motor Gooding	í	00.00			•		102.00	• •	96	26 874	089
Rividhari London Motor Carolina	•	40.726	21	9	•	0	-07.707	•	000	12 977	×
Firshed Uniteded Motor Gazoline		46.001	c	0.00		c	31.974		٩	6,586	33.0
Gasohol	0	-				0	٥	0	٥	•	
Firshed Avator Gasobse	18	88	0	7	•	0	-288	۰	۰	1	776
Naphtha-Type Jet Fuel	0	2.521	0	488	۰	٥	929	0	۰	2,141	25
Karosana-Type Jet Flust	0	13,395	0	25	0	0	-12.778	•	250	ğ	Ē
Karasana	e	3,058	0	27	0	•	-1,369	0	0	1,637	2,6
Distribute Free Col		40,791	330	160	0	**	-26,692	0	304	14,206	8
Readout Foat Of.	0	13,484	1,866	-650	0	0	-2.851	0	2,127	9,614	Ē
Naphtha and Other Olls for Petro Feed	0	8,596	350	-118	0	0	90	0	200	8,238	e e
Special Naphthale.	8	335	4	8	0	0	900	0	18	8	
LUCKSONE	0	5,408	æ	ę	0	0	Ş	•	238	1,300	6
WESTS	0	88	18	-12	•	0	7	٥	0	Š	¥
Petroleum Color .	0	4.77	c	0	0	a	0	0	3,486	2000	•
Aspralt .	0	2,610	S	•	0	0	-497	0	ε	2,178	es es
Post Or		•	٩	-	0	0	٥	0	۰		
		7.356		•	d	0	٥	0	0	7,336	
Necelariscus Products	8	1,723		ħ		٥	-687	0	9	1,063	1,862
Total	162,467	192,557	65,882	-2,292	-23,881	6,	-95,140	165,277	27.	102,149	731,625

4 Chickots natural pacifies, looperarse, unfondonated stream, and plant conditions (i) Leas the 500 leaves). Elements.

Elements.

Hofe Total may not equal tain of components over to volypendiser lounding.

Bourse and elements procurative: See Experiency Heles on Dea Ostobos and Estenation.

Contractiny	Produc- fon	Refrery Produc- fon	Imports	Stock With- drawal (+) or Addi- tion (-)	Uhao- coumbel For Crude Oar	Chude Used Directly and Losseed	Nat Recepts	Rafinary Impats	Esports	Products Supplied	Ending Stocks
Crude Oil (including lesse condensate)	E 17,087	0	27.0	-1,002	4,888	۳	0	12,837	0		12,685
Markey Con Mark Harden and 1900s	9 904		940	1	•	•	- 400	*	•		
NEUTRAL CARD SING LOCAL	200	2 5	1	ş			,	1	•		3
Column returball capes	200	9 6	8	9	0 0		90	9	0	9	2 8
Other Products?	1,377	0	8	*	0	00	986	4	0	989	385
Other Inside	g	•	•		0	0	•	4110	•	30.0	4810
Other Indoorshore and Alcohol	8	0	•	1		9.5	9 6	,	0	3	•
Unfolded Ole	٥	0		115	0	0	. 0	-244	0	888	2.733
Motor Greeke Sharten Compressed				100-				-117		-134	1 030
Aviston Casoline Blending Compounts		•		•	0	•		•		۰	•
Dolohad Detroleum Bradiuste	9	11 200	-	727	•		180	c		12.616	10 300
Brisbad Motor Casoline	8	7.004	a	480	a		508	0	0	8.794	8 978
Finished Landard Motor Gastelina	75	4 539	a	405	d	a	-181	G	•	4,000	3 276
Finalised Univaried Motor Gazoline	. "	2,492	0	8	0	0	986		0	2781	1,999
Caroliol	٥	00	0	0	0	0	0	0	٥		
Pinistred Aviston Casoline	0	8	0	es.	0	0	a	0	0	5	8
Nachtha-Type Jet Fuel	0	446	۰	9	0	0	-192	0	0	202	346
Karosera-Type Jet Puel	0	2	۰	-14	0	0	578	0	۰	1,005	623
Korosene	0	R	0	10	0	٥	0	0	0	26	8
	0	3,409	£	9	0	0	929	0	0	3,029	3,500
Regidual Fuel Oil	0	333	0	32	0	0	٥	0	0	383	513
Naphtha and Other Olls for Petro Feed.	٥	0	0	0	0	٥	٥	0	3	8	•
Special Naphthes	0	04	-	84	0	0	0	0	•	0	*
Ubfoarts	0	a	٥	77	0	0	0	0	8)	g	8
Winds	0	53	٥	٩	0	0	٥	0	0	22	2
Petroleum Colis	٥	983	0	-62	0	٥	0	0	8	247	713
Agenal	٥	E	0	-171	0	0	٥	0	w	402	1,144
Road Oil	0	0	٥	en	0	0	٥	•	0	69	۰
Sal Gas	0	Ç	0	0	0	0	۰	0	0	2	0
Mecolamical Products	\$	22	0	Ē	0	0	•	0	£	ŋ	**

Louis uppart and on the abstract of a 1 sharper of the abstract abstract on the abstract of the abstract

Unaccounted for one of its a behanding lient.
 Total coular referent year of its a behanding lient.
 Headers wasted genetim, textperfators, unfractionshed stream, and place condenses
 Include the major genetim, textperfators, unfractionshed stream, and place condenses

Note: Total may not equal sum of components due to independent rounding. Sources and estimation procedures: See Explanatory Notes on Data Caleoton and Estimation

				Sucosy					Disposition		
Commetty	Field Produc- ton	Rafinery Produc- ton	Imports	Stock With- Grawal (+) or Addh- ben (-)	Unac counted For Coude	Crudo Used Drectly and Losses2	Not Receipts	Retinory Inputs	Esports	Products Supplied	Ending Stocks
Crude Oil (Including lease condensate)	E 17,087	۰	1,738	-1,092	7,88	ę	0	12,637	•	۰	12,885
Natural Gas Plant Likulde and Little Liquified Percleum Gases Clause Clause Clause	888 888 78.	\$500	82°°8	## <sub>2</sub> #	0000	6000	\$0°5	82°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	0000	2000 8000 8000 8000 8000 8000 8000 8000	1,05
Other Lightide Other Hydrocarbone and Alcohol	889	000	•••	ă.				283	-00	ă°i	\$
Moter Gasoline Blanding Components	000	.00	00	258	000		90	170	999	184	1,886
Finished Petroleum Products Finished Moor Garoline	28	7,004	-01	797	00	<b>a</b> 0	180	00	N O	12,836	12,392
Friend Lisaded Motor Geoderia Friend Linkaded Motor Geoderia	800	2,482	000	목목으	000	000	£8°	000	000	2,781	1,999
Firshed Avience Ossoline Naphtha-Type Jet Fool	90	88	00	~4	00	00	e 8	00		202	88
Acrossos yes on the Designation of the Designation		8 2 8	8	in 8		-00	808			200	8 4 8
Reactual Fuel Cal	00	800	00	g o		** 0	00	100		2 S	120
Special Naprities	00	N @	-0	00 JE	00	00	00	00	. 8	۳n	*8
Waters Petreleum Crise Authori Road Cil	000004	=8F.£:	00000	부위투 <sup>00</sup> 5	00000	00000	00000	90000	3 :	2 7 8 0 E	55\$000
Total	19,447	13,386	2,381	-1,977	88. T		419	13,096		15,020	31,157

— To descorate for tops of a telemeny flow.

Total equal index to top of a telemeny flow.

Total equal index to top of a telemeny flow.

Total equal index to top of a telement of the telement and fault condustria.

Total equal index to the telement of telement of the telement of the telement of telement of the telement of telement o

Table 10, PAID District V Supply and Disposition of Crude Oil and Petroleum Products, November 1982 (Thousands of Barnas)

				VARIAN	TWENTY AND ADDRESS OF THE PERSON NAMED IN						
				Stock				-	Ceptaboo		
Commodity	Produc ton	Potnary Productor ton	strodin	drawati (+)	Counted For Counted	Description of the second	Nec	Refinery Inputs	Exports	Produce	Enting
Crude Oil (Including lesses condensate)	6 00 100		ĺ	100 (-)		Cosses					
The state of the s	2000	0	5,761	5,807	-6,928	-1.529	-19 980	1000	-		
Netural Cas Plant Liquids and Lings	040	900					7	994.00	6,652	•	\$2,475
CONTROL POTOBRATA GESQUE	ŧ	200	627	2	0	•	•				
	3	9	627	8	0		•	2	5	1,071	2.051
Other Producted	9	2	0	0	o	0	9 0	90.	141	76	2005
	2	0	0	-	<			9	0	g	٠
Other Liquids						,	0	227	0	117	
Other Hedrocarbons and Alcohol	403	0	20	818	•						5
Uttrathed One	42	0	0		•		0	2,600	٥	-1 414	***
Motor Greedes Mandan A.	0	0		2	0	٥	0	493			33,472
Acceptant Contract of Components	0		0.00		D	0	0	1.680	0 6		
The second second present the second	•		3	8	a	0	•	3		970"	200
		>	9	0	a	•			9	100	8,322
Plotehed Petroleum Products								N	0	٩	36
Philipped Motor Generalists	9	20,407	1,783	919	•						
Fincher I anderd Makes Constitution	0	88,783	1,216	8		200	3,701	0	8.500	100 100	
DESCRIPTION OF THE PARTY OF THE	0	12 000	2		0	0	1,534	9	1	- Contract	0,000
Carping orasing Motor Capping		46.790	2 5	-159	0	۰	1360			21,369	18,990
CARDING			707	9	0	9			4	310,61	2,386
Principal Avestion Gazetine		8	0	Ŷ	-	•		>	0	16,925	850
		e co	0	Ŧ				ь	0	2	
Katholana Tana tas man	0	2,062	•			>	0	0	c	400	
Konzona Jan and Latin	0	6.367		1		0	978	0			3
Colored and Advantage of the Colored and the C	c	901	1	5	0	0	238	•	. 1	2	3
Common Com Col Colored		10000		e	0	0	-		1	0,403	ŝ
		00000	1669	-1,640	d	-			£	185	\$
Bear.		8/100	327	1.188	•	146.		>	9	9,722	11.933
Solicial Nachthus	0	980	S	-42		3	9	0	3,346	9,010	0.41
Children	0	ç	9	90		0	200	0			
Married and in concession, williams or our Olivers of the	a	247		9	Þ	0	0	0	•		¥.0
PROPERTY.	•		-	503	0	a	400			ę	ä
			**	ç	0			> 1	g	1,056	1.19
		24.5	0	200	•			9	**	8	•
Board	0	35	c	8			0	0	2,705	470	
	•	Κ		3 *		0	0	0	•		100
	c	2000		ę.	0	0	۰	c			200
MECONANIOUS Products		-	0	0	0	c	•			0	8
	0	601	0	175	0		9		0	3,275	
otal							?	,	n	Z	235
	84,827	67,348	8,407	6.975	-6.038	90-	***				

— I buscovento for tope de la subsection en la constanta de la Table desarra de la Table desarra forma de la Language de la Carta de

Table 11. Production of Crude OII (Including Lesse Condensate) by PAD District and State, for the Most Current Month, September 1962 (Thousands of Berryle)

1981   1981	7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	And David Cold	2,448 2,541 2,541 2,541 2,541 1,6,779 4,6,779 4,6,779 4,6,779 4,6,779 4,6,779	Approx. 12 22 22 22 22 22 22 22 22 22 22 22 22
	· 	Per consent tre	2,448 2,541 1,546 1,546 1,046 1,143 4,143 51,143	28888 E
	· 문제한다한器 졌苡턴쥐용니힞활분룖0.4	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	2,426 2,554 6 1,599 6 2,603 6 2,603 1 16,779 40,078 51,148 20	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	40 m m m m m m m m m m m m m m m m m m m	Version of the control of the contro	2,544 E 1,549 E 9,863 E 16,779 48,878 51,148 20	នេតននិន្តិ ធ៍
	ర్ధార్య జీబర్లో శరి - చేశే 4 శేల 4	Treaty Tr	E 1,549 E 9,883 E 16,779 44,078 51,148 20	1888 F
	O D D D D D D D D D D D D D D D D D D D	Yorkey  Total  T	E 5,000 E 16,779 40,078 51,148	388 E
	58 82658 - 58F 8c 4	Total Pato Destrict V Seed Autority Comments	2,273 46,078 51,142	RR P
	8 82 8 2 8 - 4 8 4 8 0 4	PAD Desire V Make Rose Service	2,273 40,078 51,149 28	ž rį
	g i i i i i i i i i i i i i i i i i i i	Page Desire V Sept Audit Sept Aud	2,273 46,076 51,148 28	£
	8 2 8 2 8 - 5 8 F 8 0 4	Pali Sefer V Sefe Ave Sepe New Sepe New Sepe Sep	2,273 46,076 51,140	2
	留花 (g) 数 图 -	Wash Rakes Wash Steps Total Areas Control Control Section	2,273 46,076 51,148 20	£
	立管在8 5氪戶屬4-4	Suppliers Suppli	2,273 48,076 51,140 28	2 6
	. 68 to 8 to 5 to 4	111 1111	48,078 51,148 28	*
u -	\$28-58P\$04	11 11111	25.745 28.50	60007
	58-58FB04	1 11111	s	1,705
	8 - 58 4 2 0 4	11111		-
	- 5878 64	11111		
	58F\$0.4	1111	6.265	213
	第件票。4	111	20,637	199
	F &	111	9	•
section of the later of the lat	456 4	1	0.000	000
	64		1,771	185
South District	-			
OLI 110			000 40	4000
	1,764		04,030	7,000
		United States Total	F per 104	0.776
An District III				1
	2	1 Inchides offshore confurion		
Administration of the control of the	88	Source: San Exploration Notes on Data Collection and Falmeting	antina.	
	8	Extratosc.		
	2,356			
Commence of Partition and Street or Street, St	8			
Total Louistina 37,700	1,257			
	26			
Silve Mexico				
Wythapstern Asyl	4			
	6			
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	200			
THE PERSON NAMED IN COLUMN 2 AND POST OFFICE ADDRESS OF THE PERSON NAMED IN COLUMN 2 AND POST OF THE PERSON NAMED IN CO	ŧ			
D. colonial	,			
	\$			
TRRC Distrat 03	250			
THRC District C4	2			
	33			
durlies Fast Torse	116			
	ě			
	. 1			
	2 2			
	8			
	g			
	ş			
TRRC Dignet 10	15			
flact Teast	76			
F	2.539			
0.6	4.70			

Table 12. Offshore Production of Crude Oil (Including	Lease Condensate) By State, for the Most	Current Month, 3 September 1982 (Thousands of Barrels)

Production	Darky Average
Offshore	Total
	State

Company   Comp	State	Total	Dark
2,575 2,576 2,576 2,576 2,576 2,577		2,023	15
1,457	1.5	25.0	E 05
1,457		1,977	\$ 8 E
28,737	Rodrisi State Tease, Total	1,457 1,586	\$ 8
	United States Total	23,737	1,126
	Sources: See Explanatory Notes on Data Collection and Estingson,	ed bra no	troston.

stadische within State boundanes y not oqual sum of optiponents dan to independent	Explanatory Notes on Data Collection and Estimation.
2 8	38

undane	components due to endapendent	Collection and Estmoton.
an State bounds	*	otes on Data
S OF	ş	8

(i) Less than 500 barrols.

Noto "Total may not squal sum of components due to malegendent rounging.
Sources: See Exphanology Notes on Data Collection and Estimation.

1 These production data are included in Table 11. Shall streams of increasing an except to be produced in status other than those listed, however, statistics of the production are not averaged.

Total .....

Memoran Memoran New Memora Displants

Total

State

Teble 13. Production of Lease Condensate by State, for the Most Current Month, I September 1982 (Thousands of Barrels)

	ā	PAD Detro	_		á	PAD District II			l	ı	PAD Depost II	DOT III			DAD	974	
Commodity	Coast	Appala chen	Total	digar.	1 K	Minn.	Kara,	Total	Texas	Page 1	ğğt.	No. La.	Mexico	Total	Pooley ≥	Nest v	Ureled Statos
								1	١			1	1	1			
Natural Gas Plant I louds	989	282	928	ε	1,881	469		9,401	19.523	2,758	8,050	828	4,031	36,191	2,278	913	48,710
Screening and	0	۰	°		°	0		371	42		48	0	۰	250		۰	100
Noniral Garoline	38	8	121	۰	49			1,133	1,748		1,255	250	245	3,807		ž	5,600
Infractional Stream	22	8	2	ε	928			-2.709	9,704		250	183	2,714	2,732		9	98
	۰	۰	۰		4		8	6	Š		22	8	-	8		0	96
n Garner and Phase	3	300	743	۰	867			10,599	7,414		6000	577	020	27,488		6	40,306
Ethana	7	155	220	۰	385			2,596	918		2072	8	8	5,000		0	8,703
Property	177	ä	274	٥	88			3.884	2,695		2020	174	630	8,751		338	13,616
Britan	8	8	130	0	2			1430	2,170		13	189	212	4,229		184	6.298
Betra-Proson Metros	٥	•	٥	c	۰			۰	98		8	=	0	8		×	132
Ethnos-Brosce Metros			0	c	4			2236	98		28	۰	5	6.078		0	
lerbefarte	8	\$	8	c	36			200	909		939	7	e	2,523		19	
Dalabart Motor Gescalos	13		. 2		•			•	۰		۰	۰	0	۰		0	
Friedrad I nadad Metre Garoline		•	2	0	•		0	0	۰	٥	۰	•	0	•	×	0	
Finished Unimaried Metric Garcillon		٥	۰	0	0		0	٥	۰	۰	0	•	0	۰	n	0	
Georgia	•	0	۰	0	۰		0	0	۰	0	۰	0	0	۰	0	0	
Beebar Asseting Descripts	•	0	0	٥	٥		0	•	88	۰	۰	۰	0	18	0	•	
Neofrita-Type Jet Fuel	•	0	۰	•	٥	0	0	0	۰	٥	۰	۰	٥	۰	0	0	
Kemsene Type Let Fael	0	0	۰	0	0		0	0	٥	٥	•	۰	•	۰	0	•	
Kersene	۰	٥	۰	۰	۰		0	۰	Ξ	0	۰	۰	2	67	0	0	
Disalities Flast Cil		0		0	•		-	-	-	0	۰	٥	0	-	0	0	
	۰	0	۰	0	۰		0	۰	8	0	۰	۰	0	8	0	۰	
Woodlaneous Products	۰	0	٥	۰	-	0	2	22	F	60	N	=	ev	8	2	0	
Total Production	8	367	8	8	1,883	3	7,082	9,414	19,711	2761	8,062	88	4,036	35,398	2321	8	49,017
										l				l			
1 Production represents quantity of reducial gas processing peak output sets right to inscreaming technical	8	800	N Order	į	1 10 1190	oceaning	SCHOOL S										
(b) Less train 500 cames.	di de de	adama	the same	4													

	ď	PAD Distract	13		ľ	PAD Democra	ŀ	ĺ		l	-	l	ı				
Connodly	Esse	Appete	7	Appeals-	ž	ş	Olda.	L	1	Teacht	o o	PAD Dagger 18	- 1		PAD.		
	8	į		25 S	ž ii	Date:	King.	Total	Anlend	ore.	8	9	Now	Total	Pocky	New Y	States
Crede Of (Including lease condensate)	33,606	1,829	35.435	1.673	1678 48341	7.02	7000 01000			200	Toos	4			9		1
Netural Gas Pont Jesús				į	1	2	61,378	78,780	5	84,198	60,161	4,808	2,304	164,642	164,842 12,837	59,938	352.252
Natural Graphine and Inopentaries	100	0	¥	•	400	ŝ	į										
Dient Condinant	0	0	20	•	90	e c	Ŋ°	1249	99	2,150	393	109	8	3,544	76	200	616
PG and Bhass	0	•	0	0	107	0	:	-	•	0 5	•	0	0	۰	۰	٥	٩
Ehter	189	9	900	145	2431	487	3	4317	ę,	3 5	2 5	ž	-	83	6	0	1,006
Processe	•	0 1	0	0	۰	0	۰	٥			8	2 1	E.	77.	\$	1,102	11,080
Normal Buttern	2	9 (	0 1	0	6	X3	0	8	•	•		•	0 0	8	0	•	8
Other Dutanes	3 0	9 0	3 9	6	976	337	715	2177	282	1.838	1112	9	•:	7 8		•	34
Bictano Propare Meduras	0 0	•	0 0		200	2	8	610	149	S	-	į	•	9	2	9	5,616
Ethane-Propene Migures	•	0	•		98	٥	0	198	0	4	8	•	9	3	202	480	1,574
	,	9	1	0	0	0	•	0	۰	۰	•		3 9	ě.	o	0	8
	5	2	100	ě	28	¥	385	1,248	338	210	i.	8	. 1		•	0	0
Other Liquids												8	3	9	8	R	3,166
Other Hydrocarbons	100	c	100	٠	,	٠											
Acord	0	0	0	•	2 0		•	2	9	283	8	0	0	88	2	707	* 52.5
Ustrached Oil (nee)	3,153	180	3303	0	7	9	° į	0	•	0	•	0	0	,	9 0	,	
			1	8	ŝ	8	ē	8	787	2,507	2,915	8	146	6,483	7	1.682	12 040
Components (ref)	-1,092	Ŧ	-1,136	۴	1.800	6	213	9040	2000								
Compositive fresh	٠	,						3	è	g	2	ş	Ŧ	3,981	7	588	5,027
	•	0	*	0	ş	0	ņ	8	-75	7	-12	•	0	å	•		
Total light to Refinence	35,937	1,981	37,918	1,842.5	59,354	8.710 2	23,600	87.748	950 54	202 200		1				10	ģ
Crude Off Dietillation										100'00	00,000	0,270	2566	188,277	13,096	63,935	368.034
Grots Input (daily average)	1,145	8	1,336	8	980	986	27.0		***	į							
Decating Ratio fearmonts	1	8	1,743	8	2,302	582	888	3,608	8	18	276	9	8 9	5735	433	2,064	12,157
	9	8	200	4.4	623	96.6	613	76.3	78.0	89	747	į	8	200	e i	3,160	7,092
Purdle Oil Qualifies														1		999	Ē
API Granty, Weighted Average	300	17.6	51.51	8.83	6 50	30,86	37.22	88 95	66.00	6	98	8	8	ē	8	10.	83
	ı																

PAD West Coast PAD PAD NO. 다 수 있으 ㅇㅇ 현 ㅇ 현 역 ㅇ 숙 보고 수 수 들은 속 됐 나 와 휴 된 도 충분 없 않으 ㅁ ㅂ ㅎ 그 나 보고 이 되고 휴 주 수 은 다 다 휴 수 Cotal Messo 4 常の者ののの名はののはないののとなるとのとなって 金色の 2000 年 2000 日 Setron Bi 9 8 E E 86年 1000 に 10 10 Sept.

fesso otto

# Bd Xy Fd

Total

Products by PAD District, Appear chan #2

Petroleum

Urabed

PAD PAD Dec. IV Dist. V U Rocky West S NR. Coses

DESC

Messoo

No Le

PAD DA

0 mg Teons

> Total

Kans

\$4240485555454878444

마닷컴플러콘스크 보다 의 다 없었습니다. 540820E

출시:2 등 단 분 등 본 등 본 등 본 다 보고 등 된 다 다 두 든

803E358E0000120050

-25242348444886002a

99995958889

\$이라마트라프라 # 4

	ď	PAD Desnet	Ŀ			PAD DAY
Commodity	Coest	Appata- ohen #1	Total	Apple Chain	48	Wed
Finished Meter Gasoline2	45.5	202	659	000	2	1
Firshed Aviation Gazoline <sup>3</sup>	8	9	ε	٩	1	
Upurfied Rethery Gases & Ething	35	٩	30	20	27	30
Naphtha-Type Jet Fuel	5	ŋ	2.5	3.6	9	2
Karosana-Type Jet Fugi	9,5	0	1,6	82	9	-
Karcsere	٩	1.5	6	0	7	
	26.3	282	28.5	222	22.0	30
Needland Plant Oil	107	8.7	10.5	67	37	*
8	2	0	٩	0	-	
CENSE CHR > 400 Deg. F. Petro. Food. Use	9	0	£	0	ij	•
Special Naphthes	7	2	ņ	0	47	Ĭ
Ubriship	r:	20	2	0	9	
War	-	38	8	0	٤	Ī
Patroleum Coke	32	ιę	3.1	1.8	2	*
Aughalt	83	ε	3	6.8	3.9	ž
Aced Of	0	0	0	0	2	Ĭ
SSII Gas for Petro. Feed. Use	ε	0	E	0	ε	Ī
Still Gas for Other Usets	43	42	4	3.8	3.0	9
Miscellaneous Products	7	1,5	ř		-	"

63	ě
44 -38 -6.1	components, min
Ť	blending
22 -54 -41 -59	gasolne
Ÿ	motor
	8
ş	output
2	설품
-8.0	and indeed order plus
) or Lossi(+)4	able of input and net neutre of unfinished oils.  Only firsted motor geodine patent plus net output of motor gasoure bleming on all stated.
8	원동물

Processing Gard

-

gas plant liquids,

purply

mont. 8

Element on crucido cal houd and not mente del anticipido cide.

Processione en al allocativa from the procession and the new counts of most
Processione and allocativa from the procession and anticipido counts and anticipido counts of the counts of the procession and anticipido counts place on counts or counts or counts or counts and the counts of the procession and the counts of counts or counts of the counts of counts or counts of counts or the counts of counts or counts

1982	
November	
District,	
y PAD	
9	
Orude	
6	ĝ
Receipts	of Barre
Refinary	Toursands
ĕ	C

	PA	AD Detroit			120	PAD Demont	-				Q GWG	PAD Demet II.		ľ	gvd	GVd	
Method	Coast	Appala-	Togg	Appella- chlan	10 m	Men.,	Name.	Total	Texas	South South	988	No. La.	New	Total	Rocky Mr.	Nest V	States
Positive Domestic	00	g,	120	181	13,538	3,675	18.08	57,580 18,502	11,499	48,513	4,289	320	2020	96,629	10,188	28,080	194,504
Domestic	3,042	00	3,042	00	0 287	00	00	0.2	00	16,907	4,832	0.0	00	10,383	00	\$1,013	36,438
Sarge Domestic	4,281	90	28.19	00	98	00	0.0	969	00	5,285	88	26.88	00	375	00	¥°	10,850
Furik Cars Domestic	80	800	417	00	00	00	00	00	00	00	00	60	00	60	00	00	80
Fructo Domestic	0.0	ğ.	. 8	00	80	80	88	1,166	§ E	8 °	10	80	80	25.5	847	1,378	8215
Fotal Domestic	30,822	1,981	5,081	88. 18	33,482	3,675	1,428	20,550	12,160 908	24,424	30,653	4,236	2,325	118,971	1,965	9,065	248,343

Note: Total may not equal sum of components due to independent rounding Source: See Explanatory Notes on Data Codesten and Estmaton.

Table 19. Fuels Consumed at Refineries by PAD District, November 1982 (Thousands of Barrels, Except Where Noted)

	2	PAD District			6	D Detroit			l.		PAD Deg	Demot III			DAG	DY0	
Commodey	Court	Appete	Total	chian	E R	White.	Kars.	Total	Tenass	Gulf	13	No. Ca.	New	ig i	Rocky Rocky	West V	Umbed
		•	1			or or		1	١	September 1	TO SEC.		1	1	4	2000	
Crude Or (including lasse condensate)	a			0	0	٥	0	٥	0	٥	0	٥	D	0	0	ε	٥
Liqueded Petroleum Gallest	12			9	40	12	3	104	-	4	317	۰	60	88	-	23	83
Unfinished Ols	٥			۰	•	0	0	0	0	0	0	0	0	0	0	٥	٥
Districts Fuel Oil	8			۰	en	0	3	6	-	٥	N	0	ε	6	0	8	28
Residual Fuel Oil	88			8	310	Z	69	8	*0	174	8	2	٥	253	274	315	1,660
Marketable Petrolisim Cols	0			۰	0	0	0	0	0	8	0	0	0	8	13	\$	8
Catalyst Petroleum Cole	700			27	707	8	221	1,00	156	1.23	740	83	Ξ	2.192	145	908	4.883
Stal Gas	1,378		-	18	1,821	232	914	2,950	377	3,740	2,069	161	48	8,316	632	3,068	14,303
Other Fluib 2				0	2	0	0	2	a	Ξ	٥	0	0	F	N	3	162
Neural Gas (million ouble feet)	1,781		-	8	4,340	124	3,318	7,835	2478	21,475	8,778	28	148	33,739	1,13	7,117	61,764
Coal (thousand short tons)	•			۰	۰	0	0	0	a	0	0	0	a	۰	0	a	13
Purchased Electricity (million kWtt)	ž	8	쭗	22	287	\$	503	282	F	372	300	2	7,	878	22	930	3.050
Purchased Steam (Fillion pounds)	611			0	8	0	0	8	0	0	283	0	0	597	a	817	2,127
1 holudes lequeled refinery gazes.						ľ					l			١		ĺ	
2 includes small quantities of other patrolicum pir.	oducts (e	g. unfilte	hed ork	Nerozen.	0 000 0	DOTATION	at relines	8									

| PX0000000000000000000

Ostimode		Patroleum	Administrati	Patroliaum Administration for Defense Districts	e Districts	
	-	-	=	2	>	Total
Crude Oil (including lease condinuate) 1.2	32,009	18,872	57,467	17.7	578	445.070
Natural Gae Liquids	1	-				
Natural Cascoline and teoperation		800	27.5	29	627	9,180
Mart Condensate	4	•	9/8	۰;	0	878
Liquelled Petrolium Gases and Ethane	San	900		84 8	0	8
ETIGO	ε	1.256		9	2	800
Module	387	2.250	•	9	0 9	3
Distract Distract Line	214	883	œ	88	9 6	3,074
Charle Business	£	٥	1.161	90	à°	
THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN C	0	609	۰	0	0	628
Other Liquids 1	,	100				
Unfinished Oth 1	1,768	į	2000		ă	6,730
Mater distoine Blanding Components	741	38	514	0	S	4,907
Pinished Petroleum Products	****	,				
Finished Mator Gasoline	4 970	ě	25		1,783	30,999
Hillifled Leaded Motor Gasotine	2.740	vc	Ē	0 0	5,515	6.194
Printing Uneachd Motor Gasoline	2.236		ć		2	200
Friedd Avetton Gasofna	8	c	0.0		ě.	2,500
reprint 1 ye out 1 th	•	0	• 0		0	æ
Bootest Assemble E	198	0	0	0	0 0	9
Other	•	o	٥		0	3 0
Karosen	90	o	o	0	0	96.
Dadhan Fuel Oil		•	a	٥	ε	1,01
Bonded ships bunkers	979	8	90	E	\$	4,229
For military diffusion use		òc	0 0	00	0	0
No. 2 Total of	3,731	E	38	9	9	•
Removed Evel Co.	0		۰			
Ronderl ships business	22,780	514	1,656	0	337	28,307
fire multiple officials use	0	0	0	0	٥	1
Other	9	0	0	0	0	0
Nachtha < 400 Dan for Rown Energ Uses	25,780	6	1,988	a	337	25.237
Other Olls > 400 Dag, for Petrn. Feed 11so	3 9	8.	8	0	ដ	888
Special Naphthas	8	9	9	0	0	0
Librarity	112	9 *	35		in.	828
War	: 8	00	8 9	٥.	-	20
Aghish	ž	9 0	96	0 0	n	2
Miscellanecus Producte	-	• •	8	0 0	0 4	195
		,	,	5	9	-
India Imports	105,63	26,235	65,882	2,361	8,407	171,786
<sup>1</sup> Crode of and unfinished cits are reported by the PAD District in which they are to be processed, all other products are reported by the PAD District of early.	I in which the	oy are to b	pesseoud e	all other pro	ducts are r	sported by
2 Includes oracle of imported for storage in the Strategic Patroleum Reserve.	Heart Reserv					
(9) URSS TRain 500 barnels						
Souther See Prelaments Make on Date Calaborate due to indipendent nounting	lone nounding	d				
THE PARTY OF THE PARTY IN THE PARTY OF THE PARTY OF THE PARTY.	ğ					

unb OPEG	ā	Ethere	Signal Olic all	Blending Compo- narria	Notor Sardine	Fuel	Kero	Sel	Pess Sessi	Spaces	Prod.	Prod- works	Total Petro- loun	Total (Dasky Average)
11.			1				All PAD Districts	Districts						
	4,603	0 0	0.0	0.0	01	8,	0.0	0	2,505	01	0.	2,700	7,304	243
Lough Arabas	13 669		00	939	00	0 0	•		200	0 0	240	2	378	130
	1414		0	9		0	• •	0	0	0	0	0	1.616	19
٠.	19,605	0	0	238	0	108	0	0	2,010	0	637	4,154	23,850	ž
i	8	0 4	01	00	01	01	01	01	160	0	01	180	999	×
	2,006	3	> <	0 0	2	> <	> 0		9	00	00	9	2000	×
	1,002	,0	0	0	80	00	0		9 0	9 0	0		1 023	88
	14,205	0	0	0	0	0	•		182	-	0		14.317	269
Venezuela Ottos Occo	6,383	88	532	938	259	00	451	ž į	6,211	467	2,5	8,78	16,182	838
	20,000	ì	9	2	2	•	2		0,000	ē	ì		40,000	2
Other		•	•		•	•		•	•	•		٠		
god	9	•	> <			90		0 0		0 0	8	8	98	* 8
Rehamen	0 0	0	86	0	0	241	0	34.0	8	9 0	2	5	5	E
Brazil	1.210	0	0		243	0		°	1.343	a			2.786	F 39
Brns	217	0	0		0	۰		0	٥	0	0		217	
Danada	7,122	6,651	8		28	0		421	828	143			16,415	ž
Egypt	949	0	0		0	0		0	0	0		0	96	*
France months	•	E	0 0		0 0	0 4		0 (	9	3	E		ε	ε
	98090	90'	0 0		9	0 0		2	9 0	> <	0 0		20,701	. 5
Netherlands	٥	°			R	0		648	0	· =	0		1,461	3 4
Netherlands Antilies	0	0	978		23	0		0	4.032	0	0		6,102	202
Norway	1,767	0	0		0	0		•	0	a	a		1,787	8
Dman	435	0	0		0	0		0	0	0	0		435	21
Pacific's Pepulsio of China	180	0	0 0		98	0 0		= "		00	00		2,083	88
Austro Rico	6	90	478		1005	0		ò		00	663		8421	82
Condad and Tebago	2.290	0	0		0			a		0	2		2,710	8
Inted Kingdom	16,207	126	0		0	0		0	515	0	8		18,685	95
Virgin listends	۰	٥	1,178		2,043	455	_	2,037		٥	0	10,016	10,016	Š
Zaře distant	37	0	0		0	0		0	0	0	٥	0	37.1	Ž.
	139	0	a	8	٥	۰	۰	319	1,830	75	0	2,051	2,190	2
Havisshere	2,140	8	900	176	68	٥		99	1,907	20	ş	3,503	5,733	ē
Subsital Other	63,396	7,467	4,375	929	9/169	660	600	3,607	15,0022	300	1,476	81,018	104,414	9,460
otal Imports	115,678	8,001	4,507	1,923	6.194	100	1,011	4.229	25,297	808	2,750	95,030	171,795	5,728

														L
gonus	S Cade	Share Ehane	S Street	Gazolina Blending Compo- nents	Finshed Motor Gastoline	if a	Sene Sene	S Sep	Plant O New	Special	9 P 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Peter Peter sects	Potes Feum	t g
							D OW	PAD District 1					i	1
Arab OPEC	1							1		l	-			l
Algena	186	00	0 0	00	00	120	0 0	0 0	2,503	0 0	01	2,702	4,685	
Sant Anna	7367	0	0 0			00			8		9		8	
Subhotal Arab OPEC	6,298	0			00	180		9 0	2,881	0	8 8	8 8	9,304	
Other OPEC														
Foundor	38	0	a		0	0	0	•	189	a	٥	189	8	
Gatton	8	0	0		0	0	0	0	0	0	a	0	1,400	
Money and American	2002	0 0	0 0	0 4	0 1	0 1	0 1	0	0	0	0	0	2,072	
Vecesiela	270	8	9	4	950		ě	ş	0 0 0 0	ě	9	9	4,730	
Subtoos) Other OPEC	1,251	2	8	4	ñ	0	ē	13	6,166	1 16	6	8,587	19,637	
Other														
Angola	1,305	0	0	0		۰		0	0	۰	٥	٥		
Australia		9	0	0	0	0	a	0	0	0	E	Đ		
editants.	•	9	0 '	•		8		ä	8	0	0	388		
Brazil	, e	• 1	0 1	0	20	0	0	•	3	0	0	1,586	1,860	
Practa		9	0 0			0 0	20 0	ž, °	S S	8 9	ž,	1,370	200	
Ghara				00			9 0		ş					2
Mesdoo	3,960	0	0			0	0		9 0	• •	a		3,839	
Netherlands	0	0	6	0	SE.	0	0	88	٥	0	0	1,420	1,420	
Netherbrids Ambite		0	278	0		0	0	0	4,902	0	0	6,102	6,102	
Norway	2 2			0 4	0 0	0 0	0 0	0 1	۰:	0	0 '		8	
Puerto Rico	0	00	8		100	o	9 0		9	-	243	1 450	979	
Trinidad and Tobago	435	0	0			0	0	0	0				435	
United Kingdom	603	126	0	116		0	0	0	215	0	R	9,0	7,072	
Virgin Islands	0	0	0	0	2,043	27	18	2,037	3,785	0	0	8,838	8,838	
Other Manhorn	5	0	0	0	0	0	0	•	0	0	•	•	E	
Hemisehere	0	0	0	0	0	0	0	0	1,347	0	0	1.347	1.347	
Other Eastern Hemisphere	8	£	0	176	457	0	0	•	1,151	8	(3)	1,764	2,327	
Subtonal Other	14,520	247	1231	ž	4,718	8	8	8,509	13,734	18	1,014	28,075	40,596	
Total Imports	32,039	200	1,763	741	4,976	ğ	1,01	3,731	22,780	282	1,132	37,002	100,00	
							9,40.0	PAD District II						U
Lyab OPEC	i	٠								'	'		1	
August Ambia	5 5		9 0	9 6	9 0	9 0	9 0	9 6			9 0	0 0	3 5	
United Acab Emirates	98	0	0	, 6	, (	> 0	, c	, e	> <	, «	, .		į	
									,	,	2		8	

Table 21. Imports of Crude Oll and Petroleum Products by Source and PAD District, November 1982 (Thousands of Barrels)

Source	Social Contract	88	Paris Paris	Gosolme Blending	Finished	* 3	Karo	Post	Posit	Special	96 200 200 200 200 200 200 200 200 200 20	Prod-	Total Putro-	Park
		Ethans	8	nonts	Gestoime			8	8	1000	% ST 050	acts	ieca	Average
	1		1			ı	NO DA	PAD District II	1					
Mar OPEC	84	0 (	01	0 1	0 (	0	0	0	0	0	0	۰	967	4
Subsolut Other OPEC	3,678	00	00	00		00		00	00	00	00	00	3,878	8 2
Other	900		ě		•			1	i	1	3		-	-
jd6	8	0	30		00	00		0	0	y o	00	0	909	K R
Medico	4.531	00	00		00	00		00	00	00	E	\$	2	\$
United Kingdom	2,118		00	00	00	00	000	00	00	001			2,118	. K
Substat Other	12,839	8,006	23.		. 64			ε	514	8 0	5 2	6384	19,283	- 3
otal imports	18,672	990'9	987	325	61	0	0	3	514	85	10	6,384	25,235	176
,							PAD Die	PAD Disprict II						
Los OPEC	ļ		Į		-		ļ	ĺ	ļ	Ì	ļ	ĺ		
	7,983	000	001	001	001	00	00	00	00	00	817	817.8	2,107 8,780	2 883
Subtotal Arab OPEC	1.13	0	0	00	0		0	•	o ev	00	817.0	91.0	1,98,11	8 8
Sther OPEC Scuptor	98	e	-	9	•	c	c	•	c	c	٠		8	5
Sabon	1,15	0 6	00	00	00	00	00	00	00	00	00	. 6	1,167	88
LB1	8	0	•			•		0	0				255	8 50
Nigena	3,595	00	00	0 88	00	00	00	00	28.5	- 916	• 3		0,478	216
Subtobal Other OPEC	13.057	6		8	. 0	0			100	312	8		15,005	8
Other	d	9	880		c	c	•	-	•	•	•	90	8	8
Brack	2		0.			0	0		0	0			2	88
Earl	9	. 0	00		00	00	00	00	00	00	00	0 0	° 8	8
Flance	0	0	0			٥	0	0	0	8	٥	8	8	E
Mediselands	906,31	ē°	00		€	00	00	90	00	4.5	n a	ę v	1724	878
Norway	1,267				٥	0	0	0	0	0	0	٥	1,287	4
Oman.	ğ i	00	00		0 0	0 0	0 6	0 6	00	00	00	00	8 5	2.5
People's Repulsed of Lintal	ē°	9 0	%		00	0	0	90	0 0	9 0	280	9	250	84
rinidad and Tobago	1,856		°		0	0	0	0	\$	0	2	619	2273	2 #2
Jeffed Kingdom	9,405	00	0 [	00	0 0	00	00	00	00	0 0	00	٠.	9,496	317
Out that the	,		9/1/9	•										

(continued)														
Source	a -	Ethane	op and	Gasoline Bunding Compo- nents	Finshed Motor Gastine	Pug.	Kero-	5 <u>5</u> 5	S S S	Special	Prod-	Protein Brook sta	Total Petro-	Total (Daily Awarape)
							PAD District 13	Shet ill						
Other Other Other Hemophere Subtonal Other	25 E 25 C	800	2800	808		000	***	E°	28	2.5	0.2	5.5	2,423	8.5
Total Imports	57,447	1,167	2,803	5	8 8			200	98,	433	38 18		38.824	2,196
							PAD Detroit IV	V tout	ļ					
Other Canada Substat Other	8677	200	0.0	00	00		0.0	88			20	88	2,381	7.1
Total imports	1,788	920	0	0	0	0	0	8		-	1 2	9	2,361	5 %
							PAD Definct V	V total			l			
Stuth Antha Suthertal Anth OPEC	00	00	00	22	00	00	00	00	00	0.0	00	88	88	
Other OPEC Indonesa Substati Other OPEC	855	00	00	00	88	00	00		88			E	8 6	. 8
Other Burnst Caract Mesco Mesc	752000	°5°° 58	000000	000000	000 2 2 2	000000	e 000	.8::8	0200B	0,0000		.8582	1,505 1,605	8-8-
Total Imports	6,781	667	0	200	1,215		3	8	8 8	ŭ Ž	3 6	2,628	8,407	5 g
<ul> <li>I words would reproduce the category in Figure 6 supply of the category of the ca</li></ul>	Versions, and versions, and versions or court of courts are on Der	pe in the Str. sphalt, lutino odusts. 30 barrels p conents due to Collection	ants, nation of the control of the c	olaum Res ral gasolme dent round abon	roe recommendence recommendence	pient or	ndersate.	napithes	and the	400 degrees	F, other	ods greats		

Commode						
- American				2	^	Total
Crude Of (including lesse condensate) 1		1,207		0	6,652	7,859
inuded Patminum Gauss and Phane	9	00	808	a	141	1.516
Fhare	c	0	100	0	c	8
Prosine	90	e	384		150	469
Bidase	8	49	989	0	2	8
Ritpoe-Procerie Mechanic	0	0	0	0	0	0
Coloned Motor Geroline	8	6	280	0	12	343
1	3	0	0	۰	0	8
Kerpsene-Type Jet Fuel	0	0	245	0	83	589
Servicence	8	8	0	0	8	-
Satista Fuel Oil		ε	304	0	410	715
Needual Foot Oil		۰	2,127	0	3,346	6,476
Asothte < 400 Deg. for Potrochem, Feedstock	47	9	16	8		71
Wher Oils > 400 Dieg, for Petrochem, Feeddoock	0	28	453	۰	ε	225
Decoil Nachthei	10	-	18	۰		4
defoats	107	12	513	8	8	388
Wer.	va	ε	00	٥	S	18
Petroleum Coke	6	223	3,485	8	2,706	6,716
Schitt.	*	-	8	-	8	*
Arcelinatus Products	17	ε	10	ε	8	36
Total Product Exports	23	629	9,154	~	6,708	15,723
Total Egorts	8	1,836	8,154	8	13,360	23,582

possessors.

(i) Less than 500 barrels

(ii) Less than 500 barrels are of components due to independent rounding. Sources: See fightweetery Notes on Data Collection and Estimation

Teble 23, Exports of Crute Oil and Petroleum Products by Destination, November 198 (Thousands of Barreis)

Destrosion	- 8 5 8	Shane Shane	Motor Motor Gazoino	13	555	o Figure	Special	contra	Wax	Petro Color	Asphalt	ge	Total	Total (Delty
Angendina	٥	2		٩	3	1		1	1		1			
Manager Commercial Com	0	ev	ε	0	ē	0 0	E	2 1	Ē.	0	8	8	46	٠
Aprian	0 0	١.		0	3	18		3.		ä		*	ä	***
Selatim & Limentham	0	٠.		0	0	0		8		,	٠.	3	8	4
Frazi	> 0	- 5	0 4	0	0	0	*	2		. 20		0	5	8
Sameroon		9 =		0.0	0 (	0	0	3		2			2007	ų,
ansds.	1,207	18		•	3	0	•	0	0	8			38	9
and the second s	0	-				3 0		4		2		ē	1,160	- 1
ness (I gwear)	٥	8		• •	0		Ē	42	3	3	8	8	100	
Countries Countr	0	0		0	0	9 0	• •	Ŋ	E!	ε		ε	1	
J	0	9		۰	0	e	4	4 6	E	ε		*	6	99
Married Daniel	0	-		0	0	0		8		•	3	Ξ	12	8
Market Market	> 0	0		0	۰	0	9	23	9 6	E		8	e	E
	9 4			0	0	0	8			•	0		3	Ξ
Salvanov				0	0	0			::		0		m	ε
nand	0 0	3		0	٥	a	8	- 0	83	0 (	0 1	E	N	Ξ
				0	0	0	0	8	Ċ8	0 0	0		8	ε
Detroit Parvier let	•	N		0	0	0	0			į		- !	-	ε
Para	,	0		0	8	7	c		- 0	3	0	6	316	10
Media	0 0			٥	٥	٥	0	28	0	9 6	0 0	•	45	-
Supportuble.	0	Đi		0	0	٥				30	•		8	-
tours.		3		0	0	٥			200	0	9 0			8
onduras	0	0 0		0 1	٥.	0	3	8	0	0	• 0	E		E
Ong Kong		) to			0	٥	-	*		o	c	8		£1
9		8			0 .	•	0	-	(6)	0		83		E
donesa	c			Ξ,		0	3	e,		٥	2			E
UI	0	0		9 6	00	01	0	16	۰	5		-		Ξ,
Wast	0	689		•	> <			0		0	0	٥		
				,		0 1	3	~		8		·		8
roy Coast		, -		3	0 0	۰.	0	8	E	49	0	- 00		2
maca	0	9				,		4	0	0	0	0		8
pauuad	0	100		> 0	9	0	æ	ce		0		-		83
tan	c				0	į,	10	٨.	o,	2,116		*		
orea, Republic of	0	•			3	•		N		0	0	0		2
Well	0			•	Ę	90.	£:	N	3	8	3	00		
dinon	0			0 0			£	E:	0	0		8		8
beda	·						0	æ	0	0		90		58
disystem.	0	• 6				0	a	æ	۰	0	0	2		83
0000		257		. 8		0 (	۰.	-	0	0	0	3		83
etherlands	0	22		3 4	900	9	-	4		#	0	N		8
otherlands Andlies	۰	0		0	30	100	0	9	æ	999	0	176		38
w Zigland	٥	٥		c		1	3		0	0	0	0		4
angest	0	0							0	•	0	٧		98
978	0	a					0	æ	0	0	0	0		3.5
Norway	c	· in		, ,	۰.	٠.	٥	¥	0	0	0	٥		Ċ,
acric Trust Ter.		c			۰.	0	0	7	0	58	8	8		- •
74		8		0 0		0	0	8		0		8	8	2
	c	·				٥,	Ξ	0	E	8	0	8	ě	
Pulppines	0	o					€:	83	0	۰	0		š	••
					•			,	9	,			j	•

Destination	Quig 2	UPG and Ebane	Frished Motor Gasofine	\$ E	858	Pesidus Fuel Otto	Special	cants	Wax	Nem control	Asphali	OBJE	Total	Total (Darky Average)
Puerto Reco	2,521	=	0	0	0	393	04	2	-	\$	g	9	2,923	97
Sep. of South Africa.	0	-	0	0	0	٥	0	2	*	2	8	67	69	**
Saud Arabia	0	-	0	0	ε	0	ε	22	0	0	ε	9	52	-
Securote	0	a	a		3		-	0	8		8		956	20
South	0	118	0	0			٥	-	8	288		169	910	30
Sufram	0	0	0	0	0	٥	8	8		9	0	8	9	8
Sweden	0	0	0	٥			0	esi	8	8	0	e	•	8
Swizerland	0	01	0	0			9	-			a	0	6	60
Delland	0	-	8	0			0	,			0	8	33	
Prosided and Tobago	0	23	0	0			0	-	8		0	ē	54	-
Turkey	0	0	0	0			0	-		28	0	8	20	-
Unded Arab Emerates	0	8	0	0			ŝ	-	0	99	0	8	99	01
United Kinedom	0		0	0				*	ε	0	0	37	45	e
USSR	0	0	0	0			a	33		149	0		181	9
Justini	0		0	0			0	8	0	0	0	3	ε	8
Venezueta	0	8	0	0			cu	-	8	ε	0	-	0	8
Virgin Islands	3,585	-	0	•				ε	0	•	0	0	3,596	120
West Germany	0	-	٥	0			8	0	_	ž	0	8	116	
Cuscalavia	0	0	c	0				8	0	45	0	0	45	
Other	848	91	90	0			90	4	8	0	-	*	678	
Total	7,859	1,116	343	269	-	6,476	Ŧ	302	f	6,716	e	900	23,582	
1 Exports of crude oil are poshibited under nomei choumviannose. Some crude oil a shepped to Canada in austrantije, on a burnishrotammi basei snopa dei hi berger (sou par la villigial lataria). De proprieta de proprieta de la posensione. 1 Loat ears 500 bernet or ase the rollo bernetia mer des.	the Virgin Ist	architited under mormel often he Virgin Islands are not pro has then 500 bernels per d	prohibited ar day.	oss. Son because	Pose ter	of is shape ritones are	d to Canad U.S posse	y in expts	nge, on a	barrel-for	Darrel bas	17	Styrments of	
Note: Total may not equal sum Sources: See Explanatory Note	Notes on Da	not equal sum of components due to in planatery Notes on Data Collection and	and Estima	Sent rour ston.	dub									
Company one monarch	1000	DOMESTIC BOOK	200											

see scotnotes at end of table

No.		ľ		ŀ	١	Ove	DATE CAMPAGE	L	r		ľ	PAD Distoct J	11.11		7	9	9	
Company   Comp	Commodity	100	the depth of the same			i Rich	E 26 28	Me de	_	-	-		3			8 ≥ 0 ≥ 8 ±	15 %	Stepes
	to for Petro. Peed. Use	00		00	00	00	22	00	22	00	22		1010	00	88	00	88	5.5
	Part	8885	0082.2	ននីនិនន <u>ន</u> ិ	£°°°§	25 25 25 25 25 25 25 25 25 25 25 25 25 2	80528	ë - ¥8ë	45. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	21,08,02,00	33.88 28.83 183 183 183 183 183 183 183 183 183 1	1,108 2,689 3,613	2 0 2 th 20 2 2 th 20	4052B	1,584	25 c 55 d 58	8000	3,212 4,208 2,707 9,617 18,745
1	se-Propene Mixtures for Petro, Feed.	o n	00	00	00	00	00	00	00	00	00	00	00	00	00	00	••	00
Manual	Ne Propune Mixtures for Other Uses nory C Ferminal Ann Transit Gas Processing Plant	50000	00000	00000	00000	08008	00000	00822	. ii 8 8 8	-0582	8-2-8	8.228	00000	8000	2.248	40004	282 0 0 4 282	55 E E E E E E E E E E E E E E E E E E
1	1 1	0000		0000	0000	0808	0000	188		250 100 100 100	28 B 24	0000	0000	378 838	1,807 6,000 7,825 7,825	0 25 0 25	0000	500 1200 1400 1400 1400 1400 1400 1400 14
1	minel Gas Piccossing Plant	800-5		\$00°K	#000F	器位量投棄	50047	52 a 12 25.	E 8 8 8 8		48 to 52 to	557 0 0 1,878 1,878	50822	r o 4 8 ½	008,2 286,2 287,8	808-5	50083	1280 2,067 8,148 8,350
1000   1000	ar Hydrocarbons and Absoluti fracy	00		22		28 28	00	00			22	33	00	00	2.9	00	00	22
	d Lighter Gas Olis Ms		-				25848			1			\$682E	8.26.8	11,339 8,775 20,967 7,834 48,809	3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5,848 10,222 15,508 11,508	25,420 25,420 25,000 25,420 25

2,359 0,533 0,00 0,00 0,00 200 miles 188 0 88

\$25 NS #85°8 24888 8E 58

80008 2883

80008 5 e & e

32025 2888

0,000 2º-88

08008 5488

84002 2088

80008 8205

84088 5552

82.58

8858

2883

8020

° % ដ ឌ

32 1 28 2 2

8500

82 ~ 28 2

iophtha-Type Jet Fust

See footnotes at end of table

United 268 55 43,532 82,055 53,745 22 83,745 5, 18.5 8, 18. 5,026 5,026 5,019 5,019

PAD West V

7

	MG	PAD District			PA	PAD District #					PAD Defines III	11 154	1	Ī	DV0	OVA	l
Commodity	Coast	d die	ag .	Appelle Chesh	il il	Nec in	8 g 8	10th	Teose	Gulf Gulf Coast	al South	No. Ls.	New Mexico	Total	Rocky Ne	V West V	5#
Kerosene-Type Jet Fust Poliney Bet Terminal Popter Natural Gas Precessing Parit Total	1,316 6,865 2,784 9,765	。និនិ。និ	1,316 5,818 2,940 0 10,074	8880	1,301 2,560 516 0 4,316	28508	#48°	1,580 3,421 2,074 0 0,07	28 at 6 at	2,489 1,219 0 1,219 0,53	245 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 128 57	802208	2,002 2,002 1,182 1,182	82508	\$25 80 8	는 전 co a a
Kerceene Reference But Terminal Populos Natural Gas Processing Partir Total	£25.08	\$ 55 c c 58	25.0 25.0 25.0 25.0	°E8°8	1,315 1,55 2,125	82008	\$2408	918 1,670 207 2,795	4 to 5 u to	81 82 0 52 E	248°	288.0	800-8	505 505 505 505 505 505 505 505 505 505	~ #00 %	8602	444 H
Total Dietitro Fuel Oile Referey Referey Poplice Poplice Refered Refered Foreigner Plant Total Distance Fuel Total Distance Fu	9,985 60,177 6,980 0 85,142	35.0	10,363 9,286 9,886 1,286	\$ \$ \$ 8 ° 8	8,000 13,775 2,064 0 0	3,868 963 0 6,472	4,497 3,751 4,635 13,065	14,387 22,538 8,331 6,25	0121 884 – 885 - 884	9,588 5,619 1,678 0 17,185	5,065 1,608 1,578 0 0	282°5	88305	16,666 8,866 8,239 1,36,658	2040 888 0 888 350 0	2688 1.07 1.27	8,5% \$
Olet. Foul Oils Late No. 4 Foul Oil Riddony Riddony Riddon Poplina Poplina Namel Gale Processing Part Total	2,885 64,282 8,880 0 88,247	25 50 35 35 35 35 35 35 35 35 35 35 35 35 35	10,348 67,154 8,286 0 0	៦ <sup>8្តី</sup> ឆិ ៰ នី	8,002 13,747 2,064 0 0 23,813	3,568 860 6,472	4,497 3,751 4,836 13,085	14,359 22,501 8,331 45,192	25. 28. 20. 20. 20.	9,668 5,619 0,078	5,689 1,607 1,578 0 8,815	552 752 685 753 885 885 885 885 885 885 885 885 885 8	88808	9,903 8,239 1,537 1,736	200 800 800 800 800 800 800 800 800 800	5,487 1,077 1,196	នុង្គមុំ និ
No. 4 Fuel OII Robboy Buk Terrenal Total	1,086	400	1,864	000	282	000	000	25 28	4 3 8	8.8	25 - 35	пой	202	器など	0-	882	4646
Residual Fuel Oits Politics Politics Politics Total	31,25 725,08 31,000	20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	31,958	250 250	2,128 1,284 3,423	85.2	12.5	2,300	88°E	2,279	3,138	28.8	8008	10,284 5,746 16,141	2008	25 25 25 25 25 25 25 25 25 25 25 25 25 2	ಷಘ ಕ
Naphtha < 400 Deg. Petro. Feedstock Perfority Total	180	00	88	00	la la	00	88	額額	132	88	276	00	00	1,367	00	35	લે લો
Other Otls > 400 Deg. Petro. Feedstock Refinery Tots	10 19	00	10 40	0.0	88	00		28	88	88	33	88		1,670	00	88	લંજ
See feetnetes at end of table.		1	İ	1	ł						}						)

	rd	Diamet	7	Ì	PAL						PAD District II	Hick III			OVA	QVA	
Commodity	Contract of the contract of th	Appelo	19	Appalts- chan	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Karrs.	Total	Tecas	Tecas Coast	329	1.	New	Tops Tops	Rocky Rocky	Ness V	Uhdad
Sectal Nephthas	ş	*	8	•	2		9	į	,	1	8	3	•	-	'	- 1	
Balk Terrese	27	183	ě	8	ğ	۸,	90	ğ	30	8	0	2	0	2 6	00	30	
Total	3°	90	8	- g	° 8	01-	. š	° 28	£ 5	1,376	٥6	o ğ	00	133	0.0	0 99	3.650
ubricants Nafrasy Bright Stock	7		Ē	۰	\$	۰	2	8		20	2	d	•	ž			
Nortral	222		8 8	0 0	989	00	467	900	0 8	696	200	£		2,300	6	28	
Bulk Tarminate	2005	88	1,015 3,313	P 22 22	8 2	2 2	32.5	198	8 4 6	10.5	£ 2 8	\$ <b>2</b> 8 8	D 64 60	145	- ng	28.5	2,341 12,548
Vax, Microcrystation Referey Total	00	88	88	00	00	00	2.2	2.2	28 88	88	22	** **	00	29	00	00	2.2
Mex. Crystaline-Fully Relined Relinery Total	66	2.2	18.18	00	នន	00	88	Ģ Ģ	00	25 25	55	00	00	88	88	2.2	44
Max, Crystalline—Other Raffnery Total	9.0	22	88	00	00	00	**	~ ~	00	훈훈	00	00	00		00	==	88
Veroleus Coke Refresy Total	25	00	1,72	0.0	88	88	1,146	2,033	00	5 5 6 5	88	218	00	805	55	55	6,693
Heltory	257,1 200,0 200,0	410	1,782 2,006 3,788	24 2 E	1,678 2,603	55.5	25 T 25 25 25 25 25 25 25 25 25 25 25 25 25	3,188 1,573 4,771	8°8	808	1,084 1,084	15 E E	និ៰និ	2,858 258 3,077	202	1,15 1,041 1,041	10,158 3,958 14,081
Rodinary Total	00	00	00	0.0	8.8	00	00	88	00	00	00		00		00	8.8	3.2
Refined Products Refined Back Times Back Times Papelies Natural Gas Proceeding Plant	38008	20002	\$500 th	-000-	£2048	20000	£ 40 €	86048	8.558	80,82	36 - 0 2	2402E	33	B 20 七 舊舊	-00-N	81001	8 = = 8 E
Total Stocks, All Olls	1	i	259,838	1	ı	1	- 1	285,278	1	- 1	-1	- 1	- 1	731,625	1,157	170,255	731,625 31,157 170,235 1,455,155

<sup>(</sup>a) Loss than 500 harries Notic: Clear may not equal sup of components que no independent rounding. Sources See Enkanatory Notes on Clear Collection and Estimators — Na Appliciality.

į	۵	of I store			From II to	9		ĺ	From III to	2		5	Trom IV to	T	å	from V to	
Account	15		^	-		2	>	-	=	2	>		2	>	-	-	8
Stude Oil	۰	۰	۰	۰	۰	0	۰	405	1,574	۰	٥		٥	o	1,654	۰	18,248
Metroleum Products	8.700	869	c	3 504	6.630	2.481	0	04337	58.83	c	2.426	1 208	ě	1 328	•	•	4
Natural Garoline and Isopentane		0		۰	8	0	0	٥	1212	0	٥	3	2	0	0	0	
Untractionated Streets	0	٥	0	٥	۰	0	۰	0	0	0	0	۰	0	0	0	0	
Plant Confersatio	0	o	0	0	0	0	0	0	0	0	0	0	0	٥	٥	٥	
Uppelled Petroleum Gases	0	ន	•	1,018	1,738	148	0	1,685	6789	0	0	11	29	0	٥	0	
Unfinished Des	0	ē	0	۰	0	0	۰		۰	0	٥	٥	•	0	0	a	
Motor Gusoline Blending Components	0	0	0	0	0	0	0	۰	749	0	•	0	0	•	0	٥	
Aviston Gisolate Blanding Components	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	
Firshed Motor Gasoine	100	0	۰	1,527	2,029	1,582	0		11,582	0	973	48	0	190	0	0	
Finished Leeded Motor Gasokne	00 to	0 1	0	619	1,132	8	0	25.66	6,649	0	8	8	0	20	0		
Patched Unhaded Motor Gasoline	2,495	0	0	8	283	909	0		2000	0	404	8	0	110	0	0	
Geschol	0	0	01	0	0	0	0		•	0	0	0	0	0	0	0	
Pringing Anglion (algorite	10	0	0	٥	р	0	0	991	250	0	0	0	0	D	0	0	
Naphfra-1996 Jill Full	ě	•	•	0	8	•	0		0	٥	Ñ	8	D	107	D	٥	
Karosone-Type Jet Fuel	23	0	0	128	8	8	0	•	2,104	0	177	*	0	5	0	0	
Karceono	8	0	0	0	0	0	•		8	0	٥	0	0	0	0	0	
Dardison Fuel Or	2,479	0	0	8	58	139	•	24,902	2,311	0	8	552	0	ğ	0	۰	
Distribute Fluid Off Less No. 4	2,479	0	0	R	746	139	0	•	2,311	0	25	255	0	ğ	0	٥	٥
No 4 Fuel CM	0	0	0	0	32	0	۰		0	٥	0	0	o	o	٥	۰	
Readust Fust On	0	0	0	12	457	0	0	2,081	25	٥	ę	0	0	0	0	۰	
Naphths and Other Ods for Petro																	
Feedstack	7.	0	0	œ	8	0	0	š	8	0	٥	0	0	۰	c	۰	2
Special Naphthes	0	۰	۰	10	0	۰	0	195	114	0	٥	0	0	0	۰	۰	
Unbrigado	141	35	0	20	8	۰	۰	488	240	0	202	0	0	0	0	0	
Wite	0	0	0	0	۰	0	0	13	0	0	0	0	0	٥	c	۰	
Assiste and Road Oil	c	100	c	185		•	0	340	244		c		•	0	c	0	
Miscellandors Products	R	1	0	ž	0	0	0	787	127	0	n	0	o	0	0	0	
Obe All Products	0,700	905	٥	3,604	9,600	2.481	c	94.742	28,507	٥	9696	1.286	E	8	1,654	٥	18.286

1982	
November	
4D Districts,	
Between P	
Pipeline	
à	
Products	
troleum l els)	
5.8	
9 6	
age age	
Movement housands	
ãĚ.	
2	
Table 2	

Compage	From 5		From II to			Flem III to	Q III		-	From IV to	
	-	-	=	N	-		2	>	=	=	>
Satural Gesceine and Isospetium	0	٥	828	0	۰	1.212		۰	352	*	°
Uniterborated Session	0	0	0	•	٥	0	۰	۰	۰	٥	0
Yest Condensate	0	•	0	d	•	0	o	o	0	0	·
Agosfied Petroleum Gastia	0	1,018	17.0	348	1,463	5.738	۰	0	2	19	0
Votar Gasteine Blending Components	0	٥	0	0	۰	748	۰	۰	۰	0	٥
Averton Gasoline Blending Components	٥	۰	0	0	0	0	0	٥	۰	٥	0
Finished Motor Gasoline	4,288	1,295		1,552	37,539	10,937	٥	578	496	٥	28
Finshed Leaded Motor Geochine	2,323	ă	1,112	978	17,780	5,312	0	800	86	0	67
Phished Unleaded Motor Galloine	200	781	500	676	19,739	5,585	0	400	120	0	190
Gasorial	0	۰	0	•	۰	٥	0	0	٥	۰	۰
Tristing Augiton Gatoline	10	۰	c	ď	8	10	۰	0	0	0	0
Applifie-Type Jet Fait	0	۰	8	۰	256		0	221	8	0	107
Prosent-Type Jet Fush	2	419		\$	6880		۰	177	4	0	6
Stoken and a supplemental and a	ž	۰		۰	836		0	0	۰	0	0
Southte Fuel Oil	1,673	12t	746	139	19,826		۰	939		0	ě
Detilate Fuel Oil Loss No. 4 page 11 page 11	1,673	327	746	139	19,826	1,804	۰	330	555	٥	300
No. 4 Float Oil		0	c	0	٥		٥	۰		٥	0
10000	•	•	•	•	•	٠	•	•		•	

6,148 2,681 4,942 2,481 96,798 22,492 Note: Total may not equal sum of components due to adependent rounding. Source: See Explanatory Notes on Data Collecton and Estimator Microelaneous Products Total

1,323 05

1,741

Table 27. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, November 1982 (Thousands of Barrels)

		From 1 to			From II to		i		From 78 to	d to		_		From V to	
Cermodity	-	=	>	-	2	>	-	New Eng	As As	M. F.	-	>	-	-	=
nde Ol	٥	۰	۰	٥	°	°	406	۰	409	۰	1,574	۰	1,85		10,248
etroleum Products	2,562	828	۰	673	688	۰	27,549	3,350	7,068	17,131	2,451	200	0	0	\$
Ligating Petroleum Gases	0	S	0	۰	0	٥	ä	0	0	8	0	0	0	0	0
Unfinished Ols	•	83	۰	0	٥	٥	1,314	٥	1,282	22	0	0	0	0	0
Printing Motor Gasobine	1,276	0	0	222	20	۰	11,629	957	542	10,117	688	0	0	0	0
Finished Avietion Gasothe	0	0	٥	٥	0	0	140	\$	42	8	8	0	0	0	0
Naphtha-Type Jet Plusi	172	0	0	٥	٥	0	659	0	185	ž	0	0	0	0	0
Karosane-Type Jet Fuel	8	0	0	7	0	۰	3,709	228	88	2,522	2	٥	0	0	0
Karsasna	g	•	۰	٥	٥	0	7.5	0	243	231	0	0	0	0	0
Distribus Pust Oil	900	0	0	33	145	0	5,076	1,250	1,491	2327	206	0	0	0	0
Residual Fuel Of	0	0	۰	178	199	٥	2681	280	1,146	954	25	475	0	0	0
Naphtha and Other Olis for Petro, Feed, Use	2	0	0	æ	23	0	2	0	S	8	99	0	0	0	10
Special Naphflats	0	0	٥		٥	0	38	0	28	119	114	0	0	0	0
Librarity and and an organization and an organ	141	32	0	2	43	0	989	0	36	ş	240	307	0	0	80
Wax commenced by a commenced by the comm	٥	0	٥	٥	0	0	13	0	13	0	D	0	0	0	0
Apphalt and Road Off such segments of the segment o	0	102	0	182	o	0	310	0	œ	õ	289	0	0	0	0
Miscellaneous Products	8	17	a	٥	0	٥	787	0	35	5	8	69	0	0	55
MO.	2,552	929	0	E	999	0	27,954	3,350	7,473	17,131	4,025	8	188	0	18,209
The same of the sa	Ì			į	į	Ì		Ì	١		l	l	I	l	

	u	P.A.D. District I	_	a.	P.A.D. District II	_	a.	P.A.D. Dasset III	_	ď	P.A.D. Damet IV	>	à	PAD Danet V	
Commodity	Pecsepts offs PADO 1	Shaments from PADO I	Net Recepts PADD 1	Peccepts ento PADO II	Shaments from PADD II	Net Recepts PADD II	Pacepts nto PADO II	Shoments from PADD III	Net Recepts PADD 11	Recepts mio PAGO IV	Shaments from PADO IV	Nee Recepts PADD IV	Recepts mo PADD V	Showents from PADO V	Recepts PADD V
Crude Oil	- 2,069	0	2,059	1,574	0	1,574	18,248	1,978	16,269	۰	۰	0	۰	19,902	-19,902
Petroleum Products	197,841	9,228	88,613	34,525	11,615	23,314	6,297	121,696	-115,459	2,401	2,700	-218	3,749	40	3,701
Natural Gascine	00	00	00	ă,°	520	1,235	8.	1,215	g c	00	996	989	00	00	00
Plant Condensate		0			0	0	0	0		0	0	0	0	0	0
Inquefed Petraleum Gases	2,704	23 5	2,681	5,915	2,934	3,000	1,825	7,435	5,657	148	181	ş,	0	DI	0
Motor Garcina Barden Descounts	100	ē c	3 -	740	0 0	246	ē°	740	9 5	0 0	00	0 0	0 0	0 0	0 0
Availor Gazoine Blending Components		٥	0	0	0	0	. 0	0	0	0	0	0		·a	0
Finshed Motor Gasoline	50,032	5,544	45,548	17,622	9,106	12,514	2,029	61,730	102,65-	1,552	1,347	508	1,834	0	1,834
Finished Leaded Motor Gasoline	23,200	3,049	20211	900'8	2,627	6,437	1,132	28,859	-27,727	876	1,037	-161	1,240	0	1,240
Finished Unleaded Motor Gasoline	27,432	2,495	24,937	8,500	2,481	6,077	897	32,871	-31,974	676	310	366	994	0	ğ
Gasohol	۰:	0 9	۰!	۰:	01	0	•	0	0	0	0	0	0	0	0
i	169	22.0	85	130	თგ	25.00	08	298	-288	e c	0 0	e 6	0 8	00	0 88
Kenneng-Tyon let Fiel		223	10.442	2.341	811	1,530	88	12.830	-12.778	83	1	828	220	0	1
ľ		87	1,223	146	0	8	0	1,363	-1,369	°	0	0	°	e	°
Deatlate Fuel Oil	25,200	2,478	22,769	8,045	1,336	3,649	168	27,583	-26,692	139	559	420	674	0	674
Distillate First Oil Less No. 4		2,479	2,48	5,045	1,251	3,794	746	27,240	-25,494	139	889	-420	674	0	574
No 4 Fuel Of	343	0	363	0	145	-145	145	343	-150	0	0	0	0	0	0
Needlad Fael Of	2,833	0	2,050	152	9	163	100	3,308	-2,851	0	D	0	43	0	ę
Frechock Use.	2	14	8	72	32	29	33	119	-10	0	0	c	0	10	2-
i	**	0	202	114	0	108	0	309	-309	0	0	D	0	0	0
Libosents	_	178	330	301	6	380	103	909	-035	٥	٥	٥	200	32	182
Wax		0	65	0	0	۰	0	5	-13	0	0	0	0	0	0
Asphalt and Postd Oil		ğ	000	88	ği	101	9 6	200	194	0 0	0.0	00	0 0	0 5	0 5
WINCH SERVICE TROOPER	900	ě	770	ř	2		8		199		1	,	•	2	1

Now: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collecton and Estimation.

2,481 2,730 -219 3,749 19,550 -16,201

24,535 123,675 -20,140

11,615 24,805

36,900 9,236 90,672 36,503

Total All Products

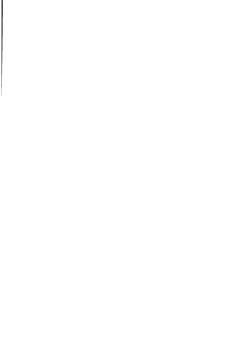
PAD Derrice II	Tools Office Man. Office. Total Teness Cast Lin No. New Total Age Age Age Age Age Total Teness Cast Cast No. New Total Age Age Age Age Age Age Age Total Age Total Age	2	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,000 116 1,801 acc 423 2,840 720 6,648 5,786 250 77 13,484 555 50 77 13,484 75 50 77 13,484 75 50 77 13,484 75 50 77 13,484 75 75 75 75 75 75 75 75 75 75 75 75 75	0 622 127 112 577 78 560 1182 112 5 0 620 1182 20 64 0 620 211 24 715 58 2597 668 BS 0
An Domini PAD Darring	chan Toss them ind. Wisc. 1	9000	208	115 4,050 116 1,831 acc 25 25 25 0 16 1,531 acc 0 1,737 116 638 0	480 2137
-	Court			0.05 to 0.05% Suffer 727 277 727 727 727 727 727 727 727 72	Greater Than 2 G2% Sultur 724 G 724

Table 30. Stocks of No.4 Fuel Oil and Residual Fuel Oil By Suthr Content, November 1982 (Thousands of Barrels)

	2	PAD Dempt									PAC Darket II	11 532			PAD	GVG	
Commodity	See II	Appale chan	Total	S Shirt	3,0	Merc.	Name.	Total	Texas insend	Goat Coat	138	1	New	an an	Roaky V	West V	States
	°	* 0	*:		0.0	0.0	0.0	0.0	01		16.	4.	0	8		٥	
TOTAL STREET	13		3 3	0 0	0	00	0	0 0	00	0 +-	06	0 4	00	o g	00	00	35
No. 4 Fuel OII - 0.31 to 0.50% Suffur Roflacy Bulk Terrated	۵۲	0.0	0 E	0.0	0.0	0.0	0.0	ac	0.0	0.0		0.0	0.0	9.	- 0	es c	121
				0			• •			0	- 80	0	00	==	- 0	D 00	2 2
to. 4 Fue OII - 0.51 to 1.00% Suther Reflacy Bulk Terrebal	° 2 2	000	0 55 S	000	2 8 4	000	000	\$ 8 4	808	នួ°នួ	808	808	202	367	000	808	710
40.4 Fuel OI - 1.01 to 2.00% Suffur National Book Terminal	0 S S	000	. \$ B	000	000	000	000	000	100	000	000	000	000	000	000	488	. ŝ £
40.4 Fuel OII – Greater Than 2,00% Suffur Referey Book Terensial Total	.88	000	088	0 0 0	990	000	000	000	o 28 28	000	8.08	8.8	000	20 20 20	000	505	243 128 372
Paridual Fuel OI - 0.00 to 0.30% Suffur Refresty Bulk Termenal	5,704	H . M	25.0	000	* 18 23	000	400	288	£°£	0° 00	2,102 2,102	5 2	202	25,52	8.00	g° g	1221 8.97.7 8.90.8
easture Feet OE - 0.31 to 0.50% Suffer Referey Bulk Terminal	282	000	3,484	000	20 e 80	000	500	528	800	853	888	2.2	000	24 8	\$08	1,072	2,356 3,054 5,410
Residual Faet Off — 0.51 to 1,00% Suffur Beforey Bulk Terrainal TOM	1,188 7,920 9,085	0 th th	1.168 8.103 9.269	588	88.2	022	882	885 87,7	10 20 25	5 8 8	1,085 1,190	808	404	2,837	202	1,285 1,687	8,372 9,882 16,254
Assistant Fuel OI – 121 to 2,00% Suffur Pathosy Bulk Terminal Total	3,952	332 419	2,884 4,882	0.88	288	¥8.5	2 2 2 2	1,006 1,814	808	8 9 5	675 778	605	808	715	202	3,448 748 4,197	6,396
Vesidual Fuel OI – Greater than 2,00% St. Refriety Bulk Terribal	Suffer 1,170 11,341	.88	11,427	000	8128	萨衣器	ំ កន្ទានិ	St 4 5	28 38 31	3,056 1,159 4,215	2,225 2,005 3,005	ទីដនី	000	5,422 2,245 7,687	£ ° £	25 SE 51	14,668
Purple Poet OS - Surfur Content Not Specified Purple Purpl	P. o	00	00	00	00	00	00	00	00		00	0.0	00		00	នាន	88

Table 32, imports of Residual Fuel OII by Sulfur Content by State of Entry, November 1962 (Thousands of Barrels)

Stato	00.00.0	0.31 10	0.51 to	1,01 to	Greater	Not	Total
	9.30%	2,000	1,00%	200%	2,00%	Specified	100
An Desides 1	5,836	1367	4.418	1.845	8.431	۰	22,780
	٩	0	215	0	٥	0	215
0.74		•	216	89	1 504	a	1,000
Carme	a	0	0	0	ä	a	22
Mana	a	0	0	0	968	0	88
Mandand	0	0	846	8	36	0	62,
5000	a	0	0	72	1,653	0	25.
Name Increase	1060	583	280	o	1,513	0	3,410
Niew York	4.458	575	2,281	812	1,207	0	8,333
Morth Carolina	0	0	۰	347	287	0	Š
Bonneshanon	100	230	680	a	8	۰	1,302
Parento belond	٩	9	9	188	100	0	355
١.		0	0	0	٥	0	-
Vicinia	102	0	0	146	1,324	0	1,573
					2	•	3
PAD District II	12	0	310	5	6	9	6
Metican	o	0	274	0	0	0	274
Menorata	20	0	0	0	0	0	8
North Daints	4	0	0	41	30	0	12
	8	0	45	•	٥	0	103
PAD District III	148	8	8	ģ	::	9 0	
Loughth	8	0	83	404		٥.	
Testa	764	300	5	•	0	0	90,
PAD District IV	0	0	0	0	۰	0	۰
V total District V		250	٥	95	٥	0	337
1		020	0	89	0	0	316
Course Course	10	9	0	4	0	0	•
Washagton	÷	0	0	0	0	0	11
AND Districts	9000	1.892	80079	2.167	9.484	٥	25,237
ALL PART CHANGE AND ADDRESS OF THE PART OF	2000		ļ				





### Glossarv

#### Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrog and oxygen. The series of molecules wary in chain length and are composed of a hydrocarbon ph hydroxyl group. CH-CH-D-H. "alcebol" includes ethanol and methanol.

Asphalt. A dark-brown-ta-black coment-like material, containing bitumens as the pretornis constituents, obtained by petroleum processing. The definition includes crude asphalt as well as following finished products cements, fluxes, the asphalt content of conclusions (exclusive of vater): petroleum distillates blended with asphalt to make cutback asphalts. The conversion factor is 42-eallon barerles per short to.

ASTM. The acronym for the American Society for Testing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will used for blending or compounding into finished sylation gasoline.

Aviation Gaseline (Finished). All special grades of gaseline for use in aviation reciprocating enginess even in ASTM Specification D 910 and Military Specification MIL-G-5572.

Barrel. A voltimetric unit of measure for crude oil and petroleum products equivalent to 42 U gallons. This measure is used in meet statistical reports. Pactors for converting petroleum cote, asphiand wax to barrels are given in the definitions for these products.

Butane. A normally gaseous paraffinic hydrocarbon, C<sub>H is</sub> It is extracted from natural gas or roff in gas streams. Butane is covered by ASTM Specification D1835 and Gas Processors Associati Specification for commercial butane.

- Normal Butane—A saturated straight-chain hydrocarbon of butane. It is a colorless paraffugas that boils at a temperature of 31.1° F. This classification includes mixtures of gases theoretia 80 percent or more normal butane.
- . Other Butanes-All butanes not included as normal butane or isobutane.

Butane-Propane Mixtures. Mixtures consisting exclusively of butane and propane that conform ASTM Specification D1835 and Gas Processors Specification for commercial butane-propane. Th are extracted from natural gas and refinery gas streams.

Butylene. An elefinic hydrotarbon,  $C_dH_{\Delta}$  recovered from refinery processes. It is reported the "Butane" category.

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or comple decomposition of vegetation. These stratified carbonaceous rocks are either solid or brittle and a highly combustible. Includes lignite, bitaminous coal, and anthracite which conform to AST Specification D 388.

Crude OH (including Lease Condensate). A mixture of pydrocarbous that existed in liquid phases underground reservoirs and remain liquid at atmospheric pressure sider passing through separating facilities. Lease condensate in included. Drips are also included, but topped crude (residue of land other unfaished ells are excluded. Liquids produced at natural gas processing plants used mix with crude all are likewise accluded where identifiable. Crude ell is considered as either domestic foreign, according to the following:

Domestic—Crude oil produced in the United States or from its outer continental shelf as defined in 43 U.S.C. 1931. Hydrocarbons such as shale oil and tar sand oil are included.

 Foreign—Crude all produced outside the United States. Imported Athabasea hydrocarbona ε included. (including a marcoal engine uses and used for agricultural machinery), and electric power generation. Included are products known as No. 1 and No. 2 heating oils, No. 1 and No. 2 diesel fuel oils, and No. 4 fuel oil.

- No. 1 Fuel Oil—A light distillate feel oil intended for vaporizing pot-type burners. ASTM Specification D 396 specifies for this grade maximum distillation temperatures of 400° F. at the 10-percent point and 550° F. at the 90-percent point, and kinematic viscosities between 1.4 and 22 consistokes at 100° F.
- No. 2 Fuel Oil A distillate fuel oil for domestic heating for use in atomizing-type burners or for moderate capacity commercial-industrial burner units. ASTM Specification D 396 specifies for this grade temperatures at the Specento point between 540° and 640° F., and kinemate viacosities between 2.0 and 3.6 centistokes at 100° F.
- No. 1 and No. 2 Diesel Fuel Oils—Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D 976;
  - No. 1-D—A volatile distillate fuel oil in the 400° to 550° F. boiling range for engines in service requiring frequent speed and load changes. Type C-B diesel fuel, which is used for city buses and similar operations, is included.
  - No. 2-D—A distillate fuel oil of lower volatility in the 540° to 640° F. boiling range for engines in industrial and heavy mobile service. Type R-R diesel fuel for railroad compression-ignition engines and Type T-T for diesel-engine trucks are included.
- No. 4 Paul OII—A feel oil for commercial burner installations not equipped with probesturg facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual facil of issches that conferen to ASTM Specification 1986 or Pederal Specification VV.P-SIGC, its kinematic viacosity is between 5.8 and 58.4 centilstoke at 100°F. Also included is No. 4-D. a fixed oil for for-a an including-apped diseal engine that conferent a STM Specification.

D 976.

Basteri Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe. Assa.
Africa, and Australia. The Hawaiian Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced

within the refinery complex.

Ethane. A normally gaseous paraffinic hydrocarbon, C<sub>2</sub>H<sub>6</sub> extracted from natural gas and refinery gas attracted. The refinery gas attracted from natural gas and refinery gas attracted. The refinery gas attracted.

Ethane-Propane Mixtures. Mixtures of ethane and propane in which neither component is 90 percent or more of the liquid volume. It is extracted for natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, C<sub>2</sub>H<sub>4</sub>, recovered from refinery and petrochemical processes. It is reported in the "Ethane" category.

Field Production. Represents crudecil production on lesses, natural gas liquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

- Gas Well Gas. Natural gas produced from gas wells. Such gas may be either associated gas or non-associated gas.
  - Associated Gas—Free natural gas in immediate contact, but not in solution, with crude od in the
    reservoir.
  - Nor-Associated Gas-Prec natural gas not in contact with, nor dissolved in, crude oil in the

Imported Crude Oil Burned as Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. "Imported crude oil burned as fuel" includes lesse condensate and liquid hydrocar bons produced from tar eand oil, gilaonia, and oil shale. Isobutane. A saturated branch-chain isomer of butane. It is a coloriess paraffinic gas that to temperature of 10.9° P. This classification includes mixtures of gases that contain 80 percenvolume or more isobutane, It is extracted from natural gas and refinery gas afreams.

Isopentane. A saturated branch-chain hydrocarbon, C<sub>2</sub>H<sub>10</sub>, obtained by fractionation of a gasoline or isomerization of normal pentane.

Koreane. A petroleum distillate that boilinat a temporature between 500° and 551° p. that has point higher that 100° P. by ASTM behad 10.56, that has a pravity reaper from 40° to 40° AFL, has a burning point in the range of 150° to 120° F. by ASTM behad 10.56, that has a pravity reaper from 40° to 40° AFL, has a burning product autible for us libuminant when browned in wick lamps, Includes gradeed febreance called franged all burnings similar to No. 1 field oil, but with a gravity of about 43° AFI and having a maximum end-point of Koreance allow for in gase behaters, onco, strong, and water brakers.

Korosene-Type Jet Fucl. A quality kerosene product with an average gravity of 40.7° AFI percent distillation temperature of 400° F., and an end-point of 572° F. It is covered by . Specification D 1655 and Military Specification MLP-58941. (Grade JP-5 and JP-8). It is primarily for commercial turbelst and turborous aircraft engines.

Lease Condensate. A natural gas liquid recovered from gas well gas (associated and son-associalease separators or natural gas field facilities. Lease condensate consists primarily of peatsn heavier hydrocarbons.

Lease Separator. A surface facility used for separating casinghead gas from produced crudes water and separating gas from that portion of associated gas and non-associated gas that liquefies temperature and pressure conditions of the separator.

Liquefied Petroleum Gases (LPG). Propane, propylene, butanes, butylene, ethane-propanemix and isobutane produced at refineries or natural gas processing plants, including plants that fract raw natural gase plant liquids. Formerly selled "Liquefied Gases."

Liquefied Refinery Gases (IARO). Liquefied pixthesim gases fractionated from refinery artillal Through compression ander refrigerations they are retained in beignid state. The reported only are dataset and/or obligate, propages and/or propiete, butane and/or butylens, butaness mixtures, and industrue. Skatches will give mean for heartenid or rubber measurement with the contraction of the contraction of the contraction of the contraction of the which are reported as guarine blending components. Liquefied refinery gases are reported for performance liquefied as guarine states.

Lubricants. A substance used to reduce friction between bearing surfaces. Petroleum jubricarts be produced either from distillates or residues. Other substances may be added to impart or import are required properties. "Lubricants" includes all grades of lubricating oils from spindle cylinder oil and those used in greases. The three categories reported are:

- Bright Stock—A refined, high viscosity lubricating oil base stock that is usually made fr residuum by a treatment such as despohalting, add treatment, or solvent extraction.
- Neutral—A distillate inbricating oil base stock with a viscosity that is usually not above.
   Saybolt Universal Seconds (SUS) at 100° F. It is prepared by a treatment such as hydrolic acid frestment, or solvent extraction.
- Other—A lubricating oil base stock used in finished lubricating oils and greases, inclublack, coastal, and red oils.

Miscellaneous Products, includes all finished products not classified elsewhere. "Miscellan products" include petrolstam, absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic ast gas feedstocks, and other finished products.

Motor Gasoline Blending Components. Pinished components in the gasoline range that will be for blending or compounding into finished motor gasoline. Pool gasoline is included in this categor.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons, with or with small quantities of additives, that have been blended to form a fuel suitable for use in spark-kgal

engines. Specifications for motor gasoline, as given in ASTM Specification D 439 or Federal Specification VV-G-1890B, include a boiling runge of 122 to 186°F at the Uppercent point to 886° to 374°F. At the 90-percent point and a Reid vapor pressure range from 9 to 15 ps. Motor gasoline' includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed, Alcohol that is to be used in the blending of gasoble is acceleded until

- Finished Leaded Gaseline—Contains more than 0.05 grams of lead per gallon or more than 0.005 grams of phospherus per gallon. The actual lead content of any given gallon, however, may avery as a function of the size of the producer and company according to specific Environmental Protection Agency waiver provisions. Premium and regular grades are included, depending on the octane rating.
- Pinished Unleaded Gasoline—Contains up to 0.05 grams of lead per gallon and 0.005 grams of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating.
- Gasohol—A blend of alcohol and finished motor gasoline that is no more than 90 percent of finished motor gasoline (leaded or unleaded as described above) and no less than 10 percent or more alcohol (blassed or methanol)

Motor Gasoline (Total). Includes finished leaded motor gasoline, finished unleaded motor gasoline, motor gasoline blending components, and gasohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range with an average gravity of 52.8° API and 20 to 90 percent distillation temperatures of 230° to 470° F., meeting Millisry Specification MILI-7-58241 (Grado JP-4). PP-4 is used for turbojet and turboprop aircraft engines, primarily by the millisry. This extegory excludes ram-jet and petroleum rocket their, which are included in the

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

"Miscellaneous Products" category.

Natural Gan Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas, howevers, some field facilities are designed to recover propane, butane, natural gas lower, one of the quality of natural gas to be markeded.

Natura I do a Plant Liquido, Natural gas liquido recovered from natural gas in gas processing plants, and in some situation, from natural gas find findition. Natural gas legislates strated by fractionators are also included. These liquids are defined according to the published specifications of the followforestern Association on the American Seculity of Testing and Materials, and real celastified as follows: Exhics, progene, exhaus-progene mix, indutane, betans, batters-progene mix, inopenture, natural guidorie, plant of experimental plants of the processing plants of the plants of the processing plants of the plants of the plants o

Natural Gas Processing Plant. A facility designed to recover natural gas liquids from a stream or natural gas that may or may not have been processed through lease separators or natural gas field facilities. The facility also controls the quality of natural gas to be marketed. Cycling plants are classified as gas processing plants.

Natural Gasoline. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Producers Association.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing andexporting countries that haveorganized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezaela.

Operable Distillation Capacity. The maximum amount of input that can be processed by a crude oil distillation unit in a 24-hour period, making allowances for processing limitations due to types and

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Inc. hydrogen, coal, tar derivatives, gilsonito, and natural gas received by the refinery for reforming hydrogen. Natural gas to be used as fuel is excluded.

Petrochemical Feedstacks. Chemical feedstacks derived from petroleum, principally for the p facture of synthetic rubber and a variety of plastics. The categories reported are "Naphthaless 400° F. end-point" and "Other oils over 400° F. end-point."

- Naphthaless than 400° F. end-point—A naphtha with an end point of less than 400° F, and till reported as used as a petrochemical feedstock.
- . Other oils over 400° F, end-point-Oils with an end point over 400° F, and that are report
- used as a petrochemical feedstock.

Petroleum Coke, A residue, the final product of the condensation process in cracking. This produ reported as marketable coke or catalyst coke. The conversion factor is 5 42-gallon barrels per sher-

- Marketable Coke—Those grades of coke that are produced in delayed or fluid cokers and w may be recovered as relatively pure carbon. This "green" coke may be sold or further surific calcining.
- Catalyst Coke—In many catalytic operations (i.e., catalytic cracking) carbon is deposited as catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the car which is used as fuel in the refinery process. This carbon or coke is not recoverable concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil fischer lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products incl unfinished oils, natural gasoline and isopentane, plant condensate, unfractionated stream, eth. liquefied petroleum gases, aviation gaseline, motor gaseline, naphtha-type jet fuel, kerosme-type fuel, kerosene, distillate fuel oil, residual fuel oil, naphtha less than 400° F. end-point, other oils-c 400° F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, miscellaneous products.

Petroleum Refinery. An installation that manufactures finished petroleum products from crude unfinished oils, natural gas plant liquids, other hydrocarbons, and alcohol,

Plant Condensate. One of the natural gas plant liquids, mostly pentanes and heavier hydrecarb.

recovered and separated as liquids at gas inlet separators or scrubbers in processing plants. Primary Stocks. Stocks of crude oil or petroleum products held in storage at (or in) lesses, refiner natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50.0 barrels of petroleum products or that can receive netroleum products by tanker, barge, or rapeli Crude oil that is in transit from Alaska, or that is stored on Pederal leases or in the Strategic Petrole:

Reserve is included. "Primary Stocks" excludes stocks of foreign origin that are held in band Propane. A normally gaseous hydrocarbon. CaH & extracted from natural gas and refinery gasstress It is used primarily as a fuel and as a petrochemical feedstock, Propane is covered by ASI Specification D1835, Gas Processors Association for commercial and HD-5 propage, and AST Specification for special duty propane.

Propylene. An olefinic hydrocarbon, CaHa, recovered from refinery and petrochemical processes. In reported in the "Propane" category.

Residual Fuel Oil. Topped crude of refinery operations. "Residual Fuel Oil" includes No. 5 and No. fuel oils as defined in ASTM Specification D 396 and Federal Specification VV-F-815C: Navy Spec fuel oil as defined in Military Specification MIL-F-859E including Amendment 2: Bunker C fuel of Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, a various industrial purposes. Imports of residual fuel oil include "Imported Crude Oil Burned as Fae

warehouse storage.

Road Oil. Any heavy petroleum oil, including residual asphaltic oils, used as a dust palliative and surface treatment of roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Special Naphthas. All finished products within the gaseline range that revised as paint timens, cleaners, and solvents. These products are refined to a special of dash point and have a being range of 90° to 20° P. "Special naphthas" includes all commercial beause and cleaning solvents conforming to ASTM Specification D1838 and D 484, respectively. Naphthas to be binded or marked as motor gasoline or aviation gasoline or that are to be used as petrochemical and grathetic natural gas (ONC) feededateds are excluded.

Steam (Purchased). Steam that is purchased for use by a refinery that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processor. The principal constituents are methane, ethane, ethylene, buttylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and refinery fuel use.

 Petrochemical Feedstock Use—Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such attreams returned to the source refinery. Finished petrochemical products are not included. For example, polysthylene, butadiene, etc. are considered petrochemical products; therefore, only their feedstock ensighests are included.

· Fuel Use-All other still gas.

Strategic Petroleum Reserve (SPR). Stocks (currently, only crude oil) maintained by the Federal Government for use during periods of major supply interruption.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanical blending.

Unfractionated Stream. Mixtures of unsegregated natural gas plant liquid components excluding those included in plant condensate. This product is extracted from natural gas.

Wax. A solid or semi-solid material dorived from petroloum distillates or residues by such restances as chilling, precipitating with a solvent, or destilling, it is a light-tooleure, more-cless translates crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbos in which the partitin series prodominates. Includes all marketable was whether cruits easile or fully refined the three grades reported are microcrystalline, crystalline—fully refined, and crystalline—other. The conversion factor is 250 pounds are yell-galloo barryl.

 Microcrystalline Wax—Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

```
Penetration at 77° F. (D-1321)—60 maximum.
Viscesity at 210° F. in Saybolt Universal Seconda (SUS)
(D-88)—60 SUS (10.22 contistokes) minimum to 150
SUS (31.8 centistokes) maximum.
Oil content (D-721)—5 percent minimum.
```

· Crystalline-Fully Refined Wax-A light-colored paraffin wax having the following characteristics:

```
istics:
Viscosity at 210° F.
(D-88)—99.9 SUS (10.18 centistokes) maximum.
Oil Content (D-721)—0.5 percent maximum.
Other 120.00r. Savbott minimum.
```

 Crystalline-Other Wax—A paraffin wax having the following characteristics: Viscosity at 210° F. (1988)—59.9 SUS (20.18 centistokes) maximum.
 Oil Content (D-721)—0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and the surrounding waters.

# Bureau of Mines Petroleum Refining Districts and PAD Districts

### PAD District Refining District

TT

TIT

Bast Cont.—District of Columbia and the State of Maine, New Hampshire, Vermont, Massachusets, Blooks Island, Consection, New Jerser, Delaware, Maryland, Virginia, North Gorolin, Swill Correlan, Georgia Pforida, and the following counties of the State of New York: Cayune, Templan, Comman, et al. In contribe cast and north thereof. Also the following counties in the State of Permaylantic Bratford, Sullivers, Columbia, Montour, Northumberland, Dauphin, York, and all counties east themselved.

Appalachian #1-The State of West Virginia, those parts of the States of Pennsylvania and New York not included in the East Coast District.

Appalachian #2—The following counties of the State of Ohio: Eric, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.

Indiana-Ullinois-Kantucky-The States of Indiana, Illinois, Kentucky, Tennessee, Michigas, and that part of the States of Chio set included in the Appalachian District.
Minnesote-Wisconsin-North and South Dakota-The States of Minnesota, Wisconsin, North

Dakota, and South Dakota.

Oklahorna-Kansas-Missouri--The States of Oklahorna, Kansas, Missouri, Nebraska, and Iowa.

Texas Inland-The State of Texas except the Texas Guif Coast District.

Texas Gulf Coast—The following countine of the State of Texas: Newton, Orange, Jefferton, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jackton, Monigomery, Harris, Galveston, Waller of Benderis, Wharten, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aranass, San Patrick, Nances, Klubery, Kenedy, Willeys, and Cameron.

Louisiana Gulf Coast.—The fellowing Parishes of the State of Leoisiana: Vernon, Rapidea, Awaelda Pulsate Coaspoe, West Pelleiana, East Peileiana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Alsa the following counties of the State of Mississippi: Pearl River, Stat, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mekile and Raldwin.

North Louisiana—Arkanasa—The State of Arkanasa and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico-The Statz of New Maxico.

IV Rocky Mountain.—The States of Montana, Idaho, Wyoming, Utah, and Colorado.

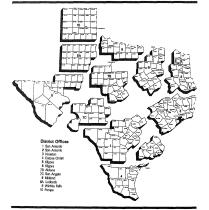
West Coast-The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

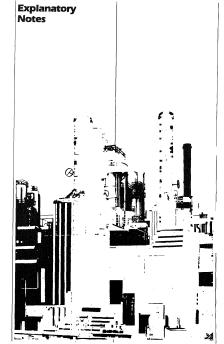
#### Petroleum Administration for Defense (PAD) Districts



#### **Bureau of Mines Refining Districts**







# Notes

## Explanatory | Note 1.1 EIA-64: Natural Gas Liquids Operations Report The EIA-64, "Natural Gas Liquids Operations Report" evolved from a survey designed and conduc

#### Background

by the United States Geological Survey beginning in 1911. This form collects dats on the production: storage of natural gas plant liquids at natural gas processing plants and fractionators. Description of Survey

#### Universe

The universe includes all operators of facilities designed to: (1) extract liquid hydrocarbons fr natural gas streams (natural gas processing plants); (2) separate a combined products lighydrocarbon stream into its component products, i.e. propane, butane, natural gasoline, etc. (fractle tors); or (3) store the liquid hydrocarbon output of plants and fractionators.

The mailing list is automated. It is maintained by matching periodically with the LP Gas Almon listings (including supplements) and the Oil and Gas Journal Processing Plant Survey listings, and making changes reported by the respondents.

# Information Collected

The data are submitted monthly by facility and include all products that the company controls thros: possession, regardless of ownership. The main items of information collected by the EIA-64 are shown by the example of the form presented below. Collection Methods

Completed reports are required to be postmarked 20 days following the last day of the report ment Follow-up telephone calls are made to nonrespondents in order to collect data before publication of ti aggregated data.

### Imputing Missing Data

Imputation is performed only for companies that submitted a report in the previous month. For suc companies, previous monthly values are used for current values. The previous month's ending stock value is used for both the current month's beginning stocks and the current month's ending stocks. The value of shipments is adjusted to balance stock level, production, receipts, plant fuel use, and losses. the event that the previous month's data were estimated, the respondent is contacted and requested submit estimates, if necessary, to be followed by a resubmission of actual data.

#### Response Rates

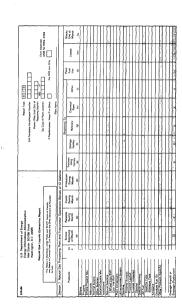
The initial response rate averages 85 percent, with a final response averaging 98 percent as a result telephone follow-up procedures.

#### Data Processing

Upon receipt, the reports are reviewed for identification section omissions, duplicate submissions, an identification information changes. The data are than entered and edited. The edit program include checks for invalid data entry codes, range checks for current-month to previous-month change (absolute and relative), arithmetic calculation errors, line balancing errors, etc. Telephone calls ar made to respondents to resolve questions.

#### Note 1.2 EIA-87, 88, 89 and 90: Joint Petroleum Reporting System

Background The Joint Petroleum Reporting System (JPRS) comprises four surveys: the "Refinery Report" (EIA-87); the "Bulk Terminal Stocks Report" (EIA-88); the "Pipeline Products Report" (EIA-89); and the



"Crude Oil Stocks Report" (El A-90). This group of forms collects data on petroleum refinery operation and on storage of crude oil and petroleum products. The origina of JPRS lie in the voluntary petroleur reporting systems instituted by the Bureau of Mines (BOM) soon after it was established as a part of it Department of the Interior in May 1910.

#### Description of Survey

#### Universe

The respondent universe of each JPRS survey is defined as follows:

annual survey EIA-177 "Canacity of Petroleum Refineries."

EIA-87: All petroleum refineries and plants producing finished motor gasoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District Columbia, Puerto Rico, the Virgin Islands, Hawaiian Poreign Trade Zone, and Guam.

EIA – 88: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and th Virgin Islands that (a) have total bulk storage capacity of 50,000 barrels or more and/or (b) receiv petroleum products by tanker, barge, or pipeline regardless of ownership of the material.

EIA-89: All products pipeline companies that carry petroleum products (including interstate and intracompany pipelines) in the 50 States and the District of Columbia

EIA-90: Crude eil pipeline companies (gathering and trunk pipeline companies), crude eil producers terminal operators, storers of crude eil, and companies transporting Alaskan crude eil by water (ji excess of 1,000 barrels), regardiess of ownership in the 60 States and the District of Columbia.

excess of Louvourrus, regardness of ownership in the oo States and the Instruct of Collimons.

The list of respondents is kept current by checking for new respondents in the Oil and Gas Jauren
weekly magazine, newspaper articles; the Office of Resource Applications publication. "Trends is
Refinery Canacity & Utilization;" the Office of Refinery Operations (ERA) list of Ut. See Refiners and Canacity & Utilization;" the Office of Refinery Operations (ERA) list of Utilization; the Office of Refinery Operations (ERA) list of Utilization; the Office of Refinery Operations (ERA) list of Utilization; the Office of Refinery (ERA) list of Utilization; the Office of Refinery (ERA) li

#### Information Collected

The main items of information collected by EIA-87, are shown by the example presented below. Th EIA-88 and EIA-89 collect data on petroleum product stocks. The EIA-90 collects data on crude of stocks and crude oil used directly as fur-

#### Collection Methods

The data for the JPRS surveys are collected on a monthly basis. Completed forms are required to pestmarked by the 20th day following the report month. Telephone follow-up calls are made to nonrespondents in order to collect data before publication deadline. An automated mailing list is maintained and is used to monthly received the forms.

#### Imputing Missing Data

Imputation is performed only for companies that submitted a report in the previous month. For these companies, the previous monthly submitted a report in the previous month of the companies, the previous month of ending states while is used for both the current month's beginning stocks and the current month's modified stacks while is used for both the current month's beginning stocks and the current month's modified stacks while is used for both the current month's modified stacks while is supported to the current month's modified stacks while so that the current month's modified stacks are considered to the current month's modified stacks and the current month's modified stacks are considered to submit spitimets if moderated and requested to submit spitimets if messessary, to be followed by a resubmission of actual darks.

#### Response Rates

As of the filling deadline, the response rate of the JPES respondents is over 90 percent. All compusies that have not responded are contacted by telephone. All though data are taken by telephone to expelie processing, a certificial submission is still required. Thirty calendar days after the report month, data for companies that still life life life they are are estimated based on noir monthly data. Names of constitute months are forwarded to DDE for further nencompliance atties. Final response rate is 100 percent.

Report Type					ш	Report Per	Yr	Mo.
SECTION 8. REFINERY STO	G65. 6	IECUPTA, INI	IThousends	TION SHEMEN	TO AND PETINES	Y PUEL USE AN	D LOSSES	
ITEM DESCRIPTION	980 000 000	MOSTA,	PERFO CORNAL WORTH	20073 10000	PROBLETON SINTE	Directory School	-555300h 10032	THE P.
Could ell Data lease conducated Suppl have of cucke CFO and COO	1000	-			×	-	-	
Springly hard distant				1. X	- X	7 X2	X.	28.3
Foreign Alaban	690	- X-	+	1			- X	- 8
Products of renaral perpent plants Exhaus	1110				×			
Ethane-propers resource	241			-	×	-		
heturn range at	223		+	-	X		-	-
Stemplingung Otto Industri	225		1	-			-	
Evipro picoste motoria	236		_		X			
What poors selected	230		-	+	+ ×		-	
Plant pandersets	210	1	_	_	X	-	-	
University of the Control of the Con	227			_	X			
Other bydrocaltiers and bydrogen	000	ĺ	[	1	×	1		
Abotel Udwafed ods	091	-			X			
Gestiva	100	-	-	+				
Financial sector	150					l	1 !	
Freshol université moios Breading composants moios	133						-	
Grand Commonweal (Common Common Commo	134						-	
	100							
Special representational systems of the party of the part	661			-				
NI had	Cen						-	
People syca	211			L				
Eargane type Knowane Incl. range oill	213	-		-				
Charles haird Lan No. 6	412							
No. 4 Set all	414							
Residual fuel all	611	-						
Extrigeory offs Englis speck	883			L				
Mecani Days	905		-	-				
Marian:	900			-				
No	-			1				
Merecrysolline Crystelline lefts reliked	971							
Crystallins ofter	961			-			-	
Pringleum callet Mathematic	-							
Marketatu Cattleti	021	SHEET I						200
Road 61								
Tell gar Patrocheristal feedback sar	1			-				
Other war	042	1977.29		-				
Ethans on the straters Percentanted tradepoly ag		-						
Oper wa	812							
	653							
Propare endice propylene Paintchomital Seedarck use	613							-
Cities and	243							
Bulana Sindler Braylena Februhamkal feedback was	514					1	- 1	
Cites and	654							
Bester propure colleteres Periodhamical ferdagah war					- 1	- 1	- 1	
Other see	850							
hobieses perceberned feetpark um	645				-	-		
Hapithe – less than 400° and point Petrochamical leedstock use	922							
Other oils - over 400° and point Pedischamical (sectoock use	824							
Other Shophad products From - half-war	097							
Fort Use	082							
		73.2						
TOTAL	911		<b>100</b>					

#### Note 1.3 EIA-161, 162, 163, 164 and 165: Weekly Petroleum Reporting System

#### Background

The Weekly Petroleum Reporting System (WPRS) comprises five surveys: the "Refinery Report" (EIA-161); the "Bulk Terminal Stocks Report" (EIA-162); the "Pipeline Product Stock Report" (EIA-163); the "Crude Oil Stocks Report" (EIA-164); and the "imports Report" (EIA-164).

The EIA, weekly reporting system was designed to collect data similar to those collected under the monthly doin Tetroloma Reporting System/IPSN (See Note). 21. In the WPRS, selected proteoms companies report weekly data to EIA on crude oil and petrolema product stocks, refinery inputs and production, and crude oil and petrolema product stocks, refinery inputs and productions report data on a costoly basis. On the Form EIA ~ 166, the important of record report each companies report data on a costoly basis. On the Form EIA ~ 166, the important of record report each product input to the contribution of 
#### Description of Survey

#### Universe

The sample of companies that report weekly in the WPRS was selected from the universe of companies that report monthly in either the JPRS system or the EAA-60 system (for importe). All sampled companies report data only for facilities in the 50 States and the District of Columbia.

The sampling frame for each weekly survey is defined as follows:

BIA-161: Uses the BIA-87 universe, which includes all petroleum refineries in the United States and its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and bulk terminals that blend motor gasoline.

EIA-162: Uses the EIA-88 universe, which includes all bulk terminal facilities in the Ulted States and its territories that have total bulk storage capacity of 50,000 barrols or more, or that receive petreleum products by tanker, barge, or pipeline.

EIA-163: Based on the EIA-89 universe, which includes all betroleum product pipeline com nasiss in

the United States and its territories that transport refined petroleum products, including intenstate in intracentage in plurious movements. Pipeline companies that only transport natural gas liquids are not included in the EIA-163 frame. Only those pipeline companies which transport products covered in the weekly survey are included.

EIA-164: Uses the EIA-90 universe, which consists of all trunk pipeline companies in the United States and its territories which transport crude oil, all refining companies, all crude oil producers, all terminal operators, and all storers of 1.000 barrols or more of crude oil.

EIA-165: Uses the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico.

#### Sampling

The sampling procedure used for the weekly system is the cut-off method. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during one previous period. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers shout 50 percent of the total for the previous time period.

#### Collection Methods

Data are collected by mail, mailgram, telephone, Telex, and Telefax on a weekly basis. All carwased firms and terminal operating companies must file by 5:00 p.m. on the Monday following the close of the report period, 7 a.m. Friday. During the processing week, company corrections of the prior week's data are also entered.

#### Formula and Calculations

After the company reports have been checked and entered into the weekly data base, ratio estimates of the weekly totals are calculated from the reported data.

First, the current week's data for a given product reported by companies in that region are summed. (Call this weekly sum, W.) Next, the most recent month's data for the product reported by those same companies are summed. (Call this monthly sum, M. Finstly, let M. be the sum of the most recent month's data for the product are reported by all companies. Then, the current week's ratio estimate for that product for all companies is given by.

$$W_t = \frac{M_t}{M_t} \circ W_t$$

This procedure is used directly to estimate total weekly inputs to refineries and production.

To estimate stocks of finished products, the preceding protedure is followed separately for refinerles, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weakly impacts data are highly watched on a company'ty-company basis or a week-by-week basis. Under each confliction, the radius method is flower to result in large errors. Hence, a number of other procedures for estimating weekly impacts were considered. The average ratio method was selected for estimating impacts because it produces estimate that were class to be thereins trained and the contract that the case to the character states compared from monthly data. Estimates are obtained using the ratio included, but with each company in turn omitted from the sample. These estimates are when averaged to detain the severage ratio of this in the vertage ratio of unitses.

#### Imputing Missing Data

The ratio method of estimation automatically imputes for nonresponse. Data from companies that do not respond are excluded from both the weekly and the monthly totals for the sampled companies.

#### Response Rates

The response rate and the day after the filing deadline is about 80 percent for the EIA-161; 75 percent for the EIA-162; 95 percent for the EIA-164 and greator than 60 percent for the EIA-164 however, more forms are received the extent day, bringing the final response rates up. Late respondents are controlled by telephone. Nearly all of the major companies report on time. The nonresponse rate for the published extinates is usually between 2 percent and 5 percent.

#### Note 1.4 EIA-170: Tanker and Barge Shipments of Crude Oil and Petroleum Products Between Districts

#### Background

The EIA-170 survey collects data for calculation of monthly petroleum supply and disposition figures on U.S. and PAD District levels.

#### Instrument and Design

This form is designed to collect data on total movements by tanker and harge of crude oil and petroleum products between PAD Districts or between PAD Districts and the Panama Canal, by shipping State and receiving State.

#### Universe

The respondent universe of the EIA-170 consists of all known companies and plants that have custody of crude oil and potroleum products transported by tanker and barge between FAD Districts or between PAD Districts and the Paname Canal. There are currently about 60 respondents.

#### Collection Methods

Survey data are collected by mall every month. The filing deadline is the 20th calendar day of the month following the report period. The response real as of the filing deadline is about 98 percent. Late respondents are contacted by telephone. All responses are processed each month before release of the data for publication.

#### Note 1.5 ERA-60: Reports of Oil Imports into the United States and Puerto Rico

#### Background

#### Universe

The monthly submission of Form ERA-60 and P-183-M-0 is required by all itemsed importers and importers and Pourto Rico. The respondent universe consisted of approximately 760 firms as of June 30, 1981. The respondent universe for these surveys is updated whenever an import liemse is granted by the Office of Oil Imports of the ERA.

#### Collection Methods

The survey data are collected by mail each month. It is mandstory for each respondent to file the ERA-60/P-133-M-O by the 15th working day of the month following the reporting period. Resubmissions are received frequently and are processed when received.

#### Response Rates

In December 1880, the survey had a response rate of 92 percent by the filing deadline. The universe was 65 of 4 that time, ORecease this is a dynamic survey, the universe is constantly changing.) Storage of 16 low upon the context of 16 low upon the 16 low upon the context of 16 low upon the low upon th

## Note 1.6 Census Import (IM-145) and Export (EM-522 and EM-594) Tabulations

The foreign trade statistics program, conducted by the Bureau of the Census, involves compilation and dissemination of a large body of data relating to the imports and exports of the United States.

#### Import Statistics

#### Coverage

The import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. clastoms territory (include the 50 States, the District of Columbis, and Puerte Rob, without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the execution of the following traces of transactions that are excluded from the statistics:

- Merchandise shipped in transit through the United States, when documented with Customs as an intransit movement.
  - Shipments between the United States and Puerto Rico, the Virgin Islands, Guam, American Samoa, and other U.S. possessions, shipments between any of these outlying areas; and imports into U.S. possessions from foreign countries.
- 3. U.S. merchandise returned by U.S. Armed Forces for their own use.

## Source of Import Information

The official U.S. import statistics are compiled by the Bureau of the Cansus from copies of the import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs Forms 7801–7808).

Imported petroleum is reported as "Imports for Consumption." Imports for consumption are a combination of entries for immediate consumption and withdrewals from warehouse for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

### Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are registed to the country of shipment.

## Export Statistics

#### Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchandise from the U.S. Castoms territory (includes the 50 States, the District of Columbia, and Puerto Rico) to foreign ecountries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to fereign countries, with the exception of the following types of transactions:

- Shipments between the United States and Puerto Rico, the Virgin Islands, Guam, American Samoa, and other U.S. possessions; between any of these outlying areas; and shipments from U.S. Possessions to foreign countries.
- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- 3. Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

### Source of Export Information

The official U.S. export statistics are compiled by the Eureau of the Censos primarily from copies of Shipper's Export Declarations. Shipper's Export Declarations are required to be filed with Oustons officials, except when qualified exporters have been authorized to such data in the form of magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations directly to the Eureau of the Censos.

## Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be censumed, further precessed, or manufactored, as known to the shipper as the time of exportation. If thenshipper does not know the country of ultimate destination, the shipment is credited to the last country to which the chipper knows that the merchandise will be shipped in the same form as it was when exported.

## Note 2 Estimation

The geographic coverage of all estimates is the 50 United States and the District of Columbia, including adjacent areas of the outer continental shelf, excluding the Hawaiian Foreign Trade Zone.

# Note 2.1 Supply

The components of petroleum supply are field production, refinery production, imports, stock withdrawal or addition, crude oil used directly, and losses.

Field Production is the sum of crude oil (including lease condensate) production, natural gas processing plant production, and new supply (field production) of other liquids used by refineries.

Crude oil production is estimated based on data received from State conservation and revenue agencies. Reports of crudeoil production from each of the 31 producing States are not received until several months after the other components of patroleum supply described in Explanatory Note 2.1 are available for publication, For an explanation of the crudeoil estimation procedure used until the State report as recomplete, see Explanatory Note 2.1

Field predection of natural gas plant liquids (NGPL), including finished patroleam products, in reported monthly on survey Form EIA-64, "Natural Gas Liquids Operation Report." Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.1.

Field production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form EIA-64, "Natural Gas Liquids Operations Report." Negative production will occur when the amount of a product produce during the month is it less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other details see Excitantory Note 1.1.

Refinery Production of LRGs, chans, and finished petroleum products is reported mostly or urvey Ferm El.-A. "Refinery Report." Published products of these product expands refinery production misus refinery input. Refinery production of unfinished oils and of motor and a visita against blassing, components appears on an and tasks in after refinery input. Negative production against the state of the production of the production of the production of the production of the same product that is represented (input) or reclassified to become another product during the same month.

Refinery production is also reported weekly on survey Form EIA-161, "Refinery Report." See Explanatory Notes 12 and 1,5 for survey descriptions and other detail. It should also be noted that refineries do not report production of crude oil, natural gasoline, isopentane, unfractionated stream, plant condessate, or other hydrocarbons and alcohol.

Imports of crude oil and petroleum products are reported monthly on Form ERA-60, "Report of Oil Imports into the United States and Paerto Rico," and Form P-133-M-O. "Shipments of Refined Products (including unfinished oils) from Paerto Rico to the United States." In addition, the Cessus Bureau Tabulation IM-146 summarizes import data from Customs import declarations reported on Customs Forms 7501 and 7505. The most prominent difference between the EIA and Census aystems appears in imports of liquefied petroleum gases (LPG), where Census data show a much higher level of imports than Energy Information Administration data. This occurs because the ERA-60 respondent frame was built by monitoring importers of licensed products and because LPGs are not licensed products. Therefore, respondents that only import LPGs have not been identified, and do not report these imports to the Department of Energy. Since these importers are required to file form 7501 with the U.S. Customs Service, EIA obtains data on imports of L.PGs from Census Tabulation IM-145. Additional data taken from the IM-145 are relatively small quantities of naphths and kerosene-type jet fasts, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in international trade and for military offshore use. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included in the ERA-60 reporting system.

Imports are also reported weekly on survey Form EIA-165, "Imports Report." See Explanatory Notes 1.3, 1.5, and 1.6 for survey descriptions and other detail.

Stock Withdrawal (+) or Addition (-) is calculated by subtracting stocks at the end of the month form atclose at the length ring of the ment, (Note: The taging inclusion size one most has even used to the ending stocks of the previous month.) A positive result (+) would represent a withdrawal from stocks and an increase in previous month.) As positive result (+) would represent a withdrawal from stocks and an increase in previous month.) As positive result (-) were consumption. A regular result (-) consumption. For survey forms used to make stock withdrawal or addition calculations see Explanatory Note 5.

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude all supply and dispetition. Croude Oil supply is the sum of field production, imports and stock withdrawal or addition, less crude used directly and losses. Crude oil dispessition is the sum of exports and refinery input.

Unaccounted-for-crude oil is calculated by subtracting crude oil supplies from crude oil disposition. A negative result indicates that refiners and exporters reported use of more crude oil than was reported to have been excluded been. (This occurs, for-example, when importance undercounted due to late reporting or other problems.) A regative resett would indicate that inner crude oil was reported to have been expolled to refiners and exporters than they reported used. This calculation is performed for crude oil to examp that product suncide for crude oil is always zero.

Crude OII Used Directly and Lasses is the zum of crudeoil lasses at reflerierie, crudeoil barred at lesses. Crude oil lasses and consumption at reflerierie zu crudeoil barred at lesses. Crude oil lasses and consumption at reflerierie zer reported on Parm EIA-87. "Reflerey Report." Crude oil burred on lesses in expected on Parm EIA-80. "Crude Oil bostos Report." Crudeoil oil burred on lesses divided into two seages series crudeoil burred oil seases divided into two seages series crudeoil burred oil seases oil burred oil seases divided into two seases opperars and an angular seapply a tracel de (i.g. resideation in crude de il.g. presideation oil as a positive resignal and crude oil seases oil sea

# Note 2.2: Domestic Crude Oil Production

Data for the Cruste OII Production Systems (COPS) are reported to the Department of Senergy by seaffs the individual State oncervation species, which collected modify production values for tax purposes. In addition, the U.S. Geological Survey reports the volume of crust oil little is produced diffusion in Gertally-owned without with the exception of its State conversional agencies, all of their reports are received mostly. After each cleaded year, been enably numbers are updated using the anneal proport from the below coverage on the control of the contro

There is a time lay of approximately its of months between the end of the experting month and the time when the actual without are smallable for this publication, to noter to provide more timely careful of production estimates, the Department of Energy has catalished a series of statistical models that forecast the volume of cruic oil production based on the bishcrical production patterns. The models was A talk Regressive Integrated Moving Average (AIIMA) to analyze series of monthly crude oil modulated to the complete of the control of the

In order to provide detailed crucio all preduction information to both the PAD District level and for the under producing State, the total Ultrick distance rude oil production volume was appeared into nine distinct groupings. The nine different time series are the monthly reported crude oil production volumes for: (1) all the states in PAD District 2 (2) all the states in PAD District 2 (6) Texas (8) Louisians (6) Texas (8) Louisians (6) Texas (8) Louisians (6) the States in PAD District 3 excluding Texas and District 5 excluding Adapta and California, Monthly face collection (Spaning 6) Insuranty 1703 are used for each of these time extra collection (Spaning 6) Insuranty 1703 are used for each of these three series

A separate ARIMA model is identified for each time series. New model parameters are estimated monthly for each of these nine updated time series. Then, these ARIMA models are used to forecast crude oil production volume for the month of interest. These values are then aggregated into PAD District and national totals. The forecasts made during 1981 had an average error of less than 0.6 perpent compared to the monthly or nucle oil production volumes eventually reported to the States.

## Note 2.3 Disposition

The components of petroleum disposition are refinery input, exports, and products supplied for demestic consumption.

Refinery Inputs of crude oil, NOFL and other liquids are reported monthly on survey Form SIA-87, "Refinery Report," Published injust of unfinished oils, and motion and aviation gasoline blending components, equal refinery input minus refinery output. Edinery inputs of finished perceived my reduces are reported on an bets six under enfinery production. Refinery inputs are also reported weekly on survey Form EIA-161, "Refinery Report." See Explanatory Notes 1.2 and 1.2 for survey described and other decisions are decisions and other decisions and other decisions and other decisions and other decisions are decisions and other decisions are decisions and other decisions and other decisions are decisions and other decisions and other decisions are decisions are decisions and other decisions are decisions are decisions are decisions are decisions are decisions are decisions and decisions are decisions

Experts of crudeoil and petroleum products are compiled from Cessus Sureau tabulations EM622 and EM594. Experts include crude oil shipments to Puerto Rice, the Virgin Italands, and Hawaiian Poreign Trade Zose, which are obtained from refinery receipts reported on Form EIA-87.

Product supplied for each product is calculated by summing field production plus refunsyproduction, plus imparts, plus stock withdrawal or minos socia addition, plus are code oil used directly and besset [blim net receipts when calculated on a PAD District bessit), minus refuneysymptomic plus and plus are consistent of the plus of the production of the production of the symplect indicates those causalities of proteins products unpapiled for documents consumption. Occasionally, the result for a product in negative when total disposition of that product exceeds total supply. Negative product supplied more current for a muchor for research (2) product exceeds total shan oil bonn reported, (2) misraporting or delayed respecting of data, and (3) for calculation of 10 D District balls, the production of the produ

# Note 2.4 Stocks

Primary sucches de crucie eil ser hie num of emility atocks reported mushily an Perm BLA-87, "Belianys Report" and Perm BLA-80, "Crucio di Block. Report." Crucia ed blied in the Stricking Petroleum Remer se included outes edit errois music. A lankan entre ell in trausit in alaci included. Stocks of crucia peptra "Primary Stocks of patriculum products are summed from data reported on the Perm BLA-84. "National State Liquida Operations Report." Primary Stocks of patriculum products are summed from that reported on the Perm BLA-84. "National State Liquida Operations Report." Primary Stocks of patriculum products are summed from that are patrical on the State State of the State State State of the State Stat

# Note 2.5 Average Stock Levels

The graphs displaying monthly stock levels of petroleum products, crude oil, motor guastine, distillate foul oil, residual mide oil, liquiditied pricoleum gases and eithen, and other products provide the user with recent data as well as a summary of data from the most recent 3 year period from January through Jene (This summary takes the form of a Newage range, "that includes seasonal variation determined from a longer time period. The average range represents the historical nature of the production of the prod

These curves are updated every 6 months effective January for July 1 by basing the "average ranges" on a more recent time period. At that time, each 3-year data series will be adjusted by dropping the first 6 months and including the most recent 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors were estimated by means of a seasonal adjustment technique developed at the Bureau of Census (Census X-11). The seasonal factors were assumed to be stable (i.e., unchanging from year to year) and additive (i.e., the series is descapanalized by subtracting the seasonal factor for the appropriate month from the reported stock levels). The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and irregularities as the original data. For crude oil stocks, the derived seasonal factors were very small relative to crude oil stock levels. Therefore, the seasonal factors for crude oil stock levels were set to zero. The seasonal factors for total petroleum (crude and products), distillate fuel oil, residual fuel oil, liquefied petroleum gases and ethane, and other products were derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors were based on monthly data from 1975, 1976, 1978, 1979 and 1980. In 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the seasonal patterns in 1973 and 1974 appeared to be different from those in recent years. It was therefore assumed that the seasonal patterns in 1973, 1974, and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the illustrated seasonal patterns for total petroleum (crude and products), crude oil. distillate fuel oil, residual fuel oil, liquefied petroleum gases and ethane, and other products is stronger than is the evidence for the illustrated seasonal patterns for motor gasoline.

In some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fale oil is alightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations of years) and the data variability.

After seasonal factors are derived, the most recent 3 year period (from January through December or from July through June) is deceasonalized. The average of the deceasonalized 36-month series determines the midpint of the deceasonalized average band. The standard error of the deceasonalized 36-months is calculated adjusting for extreme data points. The width of the "average range" is twice this standard error.

The upper curve of the "average range" is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

# Note 2.6 Movements

Movements of cracke all between PAD Districts are reported on Form EIA-170. "Basker and Barga Regart." Previous product movements are reported on Forms EIA-170 and EIA-8, "Pipelian Product. Bayort." Net recipie are calculated by summing total movements into and total movements from each PAD District by pipelines, inaders, and integers, and subtracting for the difference. Movements of cracke all popeline are not reported. For survey descriptions and other detail, see Embandator Notes 12 and 1.4.

# Note 2.7 Preliminary Monthly Statistics

Data from the Weekly Petroleum Reporting System (Forms EIA-161, 192, 163, 164, and 166) are used; a catimate the most recent monthly values for the historic clast statistics. Since some of the weekly reporting periods overlang 2 adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To calculate monthly estimates of crude oil and petroleum product imports, crude oil input to refineries, and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

Bod of-month stock levels of oreds oil and the major products (motor gas/line, distillate fael and readisful field) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is acclusted by the read calculated by first calculating the stock change between the 2 weeks. The failing two changes between the 2 weeks. The failing two changes between the 2 weeks. The failing two changes between the 2 weeks. The failing in the contribution of the 3 weeks are calculated by the contribution of the 3 weeks. The failing in the contribution of the 3 weeks are calculated by the contribution of the 3 weeks are calculated. The same are contributed to the 3 weeks are calculated by the 3 weeks the weeks that control the same are failed to the 3 weeks are calculated by the 3 weeks the 3 weeks are calculated by the 3 weeks 1 weeks are calculated by the 3 weeks 1 w

Proliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 2.2.

# Note 3 Accuracy of Petroleum Supply Data

Early in 1981, the Energy Information Administration completed an assessment of the accuracy of principal petroleum supply data series. This assessment concentrated on two methods of analysis:

 Comparisons between EIA's final annual estimates published in the Petroleum Statement Annual (PSA) and annual estimates from independent sources.

Comparisons between EIA's final monthly estimates published in the PSA and EIA's earlier estimates
published in the Monthly Petroleum Statistics Report and the Petroleum Statement, Monthly (producessor
of the Monthly Petroleum Statement).

Selected excerpts from these comparisons are presented below.

#### Comparisons of Annual Ratimates

All of the systems that provide data for the Parlician Wapply Menths, account for the weekly systems, try to collect data from the metric universees deline pitential respondents. They do not sample, and have no sampling errors. Insecuración in the data still occur because of problems such as incomplete listed respondents, errors in the responses, and conceptual errors in the design of the data systems. Such insecuración are hard to identify and even harder to quantify. Some understanding of the overall coursey of tho estimation can be achieved by comparing estimates derived from independent sources of data, as shown in the following tables. Close agreements among samual estimates from several data, as shown in the following tables. Close agreements among samual estimates from several constant of the control of the contr

#### Crude Oil Production

Comparisons among independent estimates of annual crude oil and lease condensate production lead to the conclusion that the PSA estimates are probably accurate to within 1 percent.

### Crude Oil Imports

Comparisons among independent estimates of annual crude oil imports lead to the conclusion that the PSA estimates are probably accentate to within 1 percent. This conclusion is supported by a study of BIA and Customs/Census import data performed for BIA.3

#### Motor Gasoline Supplied

Comparisons among independent estimates of the annual volume of motor gasoline supplied for domestic use show that differences in the estimates grow between 1977 and 1979. By 1979, the EIA estimate of sales by refiners and the Environmental Protection Agency's estimate of production had grown about 6-7 percent larger than the comparable PSA. Lundberg, and American Petrolum Institute (API) estimates. Research conducted by EIA in 1979 and 1989' confirmed that the lower

<sup>&</sup>lt;sup>1</sup>An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292, June 1981.

<sup>\*</sup>Maxima Corporation, Patroleum Imports Reporting Systems, Proliminary Draft, (Silver Spring, Maryland: Pebruary 1890). Prepared for the Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Washington, D.C.

<sup>\*</sup>Office of Brergy Information Validation, Energy Information Administration, U.S. Department of Beergy, An Evaluation of Published EIA Gasotine Supply Estimates (Washington, D.C.: April 1880).

estimates were inaccurate, and identified changes in the petroleum industry that had an adverse effect on the PSA estimate. During 1880, B1A developed and tested improved procedures for collecting petroleum supply data, and implemented them in Janeary 1981, (See Rynlandow) Note 4.)

## Distillate Fuel Oil Supplied

Comparisons among independent estimates of the annual volume of distillate fuel oil supplied for domestic use lead to the conclusion that the PSA estimates are probably accurate to within 1 to 2 percent.

### Residual Fuel Oil Supplied

Comparisons among independent estimates of the annual volume of residual find oil supplied for domestic use sense to show sizable and consistent differences between the IRA estimates of sales by refiners and the PSA and API estimates. When imports of residual find oil by near-times are added the refiner sales, however, the difference between refiner sales and the PSA unitables are pararrowed to within 1 percent. The comparisons therefore lead to the conclusion that the PSA estimates are probably accerated to within 1 to 2 percent.

Comparison of Estimates of the Volume of Crude Oil and Lease Condensate Production, 1977-1979

	Produc	ated Volution in M . Gallon I	llions of		etive Estl: Percent PSA Est	
	1979	1978	1977	1979	1978	1977
EIA Estimate from Petroleum Statement Annual <sup>5</sup>	3,121	3,178	3,009	///	///	///
Comparative Estimates						
American Petroleum Institute Estimate from API Monthly Statistical Report	3,130	3,214	3,021	100,3%	101.1%	100.4%
Census Estimate from the Annual Survey of Oil and Gas <sup>d</sup>	_	3,148	3,016		99.1%	100.2%
Oil and Gas Journal Estimates of Total Production derived from Monthly Data	3,168	3,165	3,005	101.5%	99.6%	99.9%
E1A Estimate from Annual Survey of Oil and Gas Reserves (E1A-23)!	3,102	3,144	8,001	99.4%	98.9%	99.7%
/// = Not applicable = Not available						

Geographic coverage: the 50 United States and District of Columbia with adjacent areas of the Outer Continental

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

<sup>&</sup>quot;Volumes are rounded to the nearest million barrels.

Prom Table 6 in EIA's Petroleum Stolement Annual, 1977, 1978, 1979.

From issues of the American Petroleum Institute's Monthly Statistical Report. The annual values were obtained by summing the monthly values for each of the twelve-menth periods.

<sup>&</sup>lt;sup>4</sup>Prom Table 1, p.2 of the Bureau of Cansus' Annual Survey of Oil and Gas, 1978.

<sup>&</sup>quot;From issues of the Oil and Goe Journal. Monthly satimates are in thousands of barrels per day. They are converted to millions of barrels by dividing by 1,000 and multiplying by the number of days in the reporting period.

millions of barrels by dividing by Lobb and multiplying by the number of calls in the reporting period.

From ElA's U.S. Crude Oil and Natural Gas Reserves 1973 Annual Report (Table 19, p. 35), 1978 Annual Report
(Table 16, p. 20), and 1977 Annual Report (Table 22, p. 26).

		ne of Mil . Gallon l			ative Est a Percen rimary I	t
	1979	1978	1977	1979	1978	1977
BIA Estimate of Receipts at Ports of Entry (ERA-60) from Pstvoleum Statement, Annual*	2,380	2,320	2,414	///	///	///
Comparative Estimates						
American Petroleum Institute Estimate of Receipts as Reported by Refiners	2,346	2,323	2,360	98.6%	100.1%	97.8%
Customs/Census Estimate of Receipts at Ports of Entry (Customs Porms 7501 and 7502) <sup>d</sup>	2,415	2,338	2,431	101.5%	100.8%	100.7%
EIA Estimate of Inputs of Foreign Crude at Refineries (ETA-87)*	2,364	2,334	2,431	99.3%	100.6%	100.7%

\_\_\_

<sup>/// =</sup> Not applicable
\*Volumes are rounded to the nearest million barrels.

<sup>&</sup>lt;sup>3</sup>From Table 1 in ELA's Periodens Statement A mused 1977, 1978, 1979. This table also includes imports for the Strategic Petroleums Research (SPR) which were 7.8 million in 1977, 88 million in 1979, and 24.4 million in 1977. Statement of the servant settlemate of imports derived from AFTs Montally Stateties Report childs excludes imports for SPR, and the ELA attimates for imports for the SPR which are listed in footpate be above. The number of the servant settlemates of the SPR and the ELA attimates for imports for the SPR which are listed in footpate be above. The number of servant is settlemated to the SPR and the ELA attimates for imports for the SPR which are listed in footpate be above. The

each month.

"Obtation imports to Poarte Riço which are included in the source for these estimates by a loss estimated from these estimates in keeping with the agographic coverage of the table. Data are from computer principal order to bureau of Census Report III-464-X dated April 78, 1999 (1977 and 1978 date) and 1978 date) and December 19, 1989 (1977 date).

Estimate equals refinery inputs of foreign eroad plus (mines) stock increases (decrease) of foreign crude. The data for the competation are published in B1A's Petroleum Statement, Annuals. The stock changes (all increases) are decired from data motocks of crude old interfluence) such changes for the competation are published in B1A's Petroleum Statement, Annuals. The stock changes (all increases) are decired from data motocks of crude old interfluence, built kerminals, and pipeliness are perpeted on Perm RIA-100, plus

the increase in the SPR. This estimate excludes crude oil Imported and not used as refinery input.

Geographic coverage: the 50 United States and the District of Columbia.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Everyy Information Administration,

DOB/FIA-Resident

### Comparison of Estimates of the Volume of Motor Gasoline Supplied for Domestic Use. 1977-1979

	Volum 42-U.S	ne in Mill . Gallen I	ions of Barrels*	Percent of	ne Suppl of the PS/	ied as a Estimate
	1979	1978	1977	1979	1978	1977
EIA Estimate from Petroleum Statement, Annual <sup>b</sup>	2,578	2,711	2,626	///	///	///
Comparative Estimates						
KIA Estimate of Sales by Refiners (P-306)°	2,708	2,792	2,671	105.2%	103.0%	101.8%
Environmental Protection Agency Estimate derived from Production Data <sup>4</sup>	2,766	2,851	2,706	107.5%	105.2%	108.1%
Lundberg Surveys, Inc. Estimate of U.S. Motor Gasoline Sales*	2,631	2,746	2,656	102.3%	101.3%	101.2%
American Petroleum Institute Estimate of Deliveries <sup>1</sup>	2,579	2,697	2,612	100.2%	99.5%	99.5%
/// = Not applicable						
"Volumes are rounded to the nearest million 49-I	I.S. onlian las	urrels.				

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration. DOE/EIA-0292 Comparison of Estimates of the Volume of Distillate Fuel Oil (Including Kerosene) Supplied for

		ne in Milli Gallon E		Volum Percent o	e Supplie f the PSA	ed as a Estimate
	1979	1978	1977	1979	1978	1977
EIA Estimate from Petroleum Statement Annual <sup>b</sup>	1,269	1,307	1,275	III	///	///
Comparative Estimates						
EIA Estimate of Sales by Refiners (P-306) <sup>e</sup>	1,282	1,275	1,242	101.0%	97.6%	97.4%
American Petroleum Institute Estimate of Deliveries $^{\rm d}$	1,291	1,300	1,277	101.7%	99.5%	100.2%
III - Mat amplicable						

<sup>/// =</sup> Not applicable

<sup>\*</sup>Derived from Table 2 in E1A's Petroleum Statement Annual, 1977, 1978, 1979. \*Derived from Table 1 of EIA's December issue of Petroleum Market Shares, Report on Soles of Refused Petroleum Products

<sup>1977, 1978, 1979,</sup> <sup>6</sup>The estimate above is derived by substituting RIA Demestic Production values with values of domestic production tabulated from the Environmental Protection Agency Bq. Form 3520-2, "Lead Additive Report for Refineries." The EPA

production estimates are 2,694 million barrels in 1977, 2,767 in 1978, and 2,848 in 1978 as compared from a semimary sheet provided by Mr. Bob Summerhaves of EPA From the mid-June issues of the "National Petroleum News," 1979 and 1980.

API publishes monthly estimates in thousands of barrels per month of the volume of motor gasoline delivered from primary storage. The initial published monthly estimate is derived from API sources, but in later API published monthly estimates are

revised using BIA data. The values shown in the table are equal to the sums of the initial published API menthly estimates o motor gasoline multiplied by the number of days per menth.

Geographic coverage: the 50 Haited States and the District of Columbia

<sup>\*</sup>Volumes are rounded to the nearest million 49-LLS, callon burrels.

Derived from Table 2 in EIA's "Petroleum Statement Annual", 1977, 1978, 1979.

<sup>\*</sup>Derived from Table 1 of RIA's December issue of Pstroleum Market Shares, Report on Sales of Refined Petroleum Products, 1977, 1978, 1979,

<sup>&</sup>lt;sup>d</sup>API publishes monthly estimates in thousands of barrels per month of the volume of distillate and kerosesse delivered from primary storage. The initial published monthly estimate is derived from API sources, but in later API publications the estimates are revised using EIA data. The values shown in the table are equal to the sums of the initial published API monthly estimates of distillate and korosene multiplied by the number of days per month. Geographic coverage: the 50 United States and the District of Columbia.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Exerci Information Administration. DOE/EIA-0292.

	Volus 42-U.S	ne in Mill I. Gallon E	ions of Sarrels*	Volum Percent o	ne Supplie If the PSA	
	1979	1978	1977	1979	1978	1977
EIA Estimate from Petroleum Statement, Annual <sup>a</sup>	1,024	1,095	1,109	///	///	///
Comparative Estimates						
EIA Estimate of Sales by Refiners (P-306)*	796	832	847	80.8%	79.6%	80.1%
American Petroleum Institute Estimate of Deliveries <sup>d</sup>	1,044	1,101	1,114	102.0%	100.5%	100.4%

<sup>/// =</sup> Not Applicable

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

## Comparisons of Monthly Estimates Over Time

Inaccuracie in petroleum data resulting from incompilea or delayed reports from respondents and from data processing green are usually eliminated from the first 1/2-de attinuate, 100s; intercoracies are from data processing green are usually eliminated from the first 1/2-de attinuate, 100s; intercoracies are producessors. The following tables compare the initial monthly estimates published in the Medial processors. The following tables compare the initial monthly estimates published select published in the PSA. Devring 1977—1978, the Medially Processors Statistics Report was published select published in the PSA. Devring 1977—1978, the Medially Processors Statistics Report was published about 102-104 day was the end of the reporting month. The tables below this, both in terms of issue and in 102-104 day was the end of the reporting ments. The tables below this, both in terms of issue and in terms of standard deviation, the later estimates are consistently more accurate than the earlier contrasts. In page 164 th, the earlier estimates are consistently more accurate than the earlier contrasts. In page 164 th, the earlier estimates are non-intensity more accurate than the earlier contrasts. In page 164 th, the earlier estimates are non-intensity more accurate than the earlier accurates.

For purposes of comparison, the Phericana Supply Monthly is accelerated to be published on about the same time in gar and Monthly Partheaus Statistics Report Catation should be exercised, however, in drawing conclusions from this similarity. The Partheaus Supply Monthly ness improved data processing procedures developed and successfully implemented during 1981. In addition, since 1979. EIA has greatly improved the accuracy of its 60-day creade oil production estimates and is making progress in improving the accuracy of its 60-day improved time.

<sup>&</sup>quot;Volumes are rounded to the nearest million 42-U.S. gallon barrels.

\*Derived From Table 2 in ELA's Patrolaux Statement Amussil, 1977, 1978, 1979. Refinery find use, subtracted from the

figures in the source reformation below, has been reinstated in those estimates.

Therived from hable 1 of ERLS posember issues of Petroleum Marsket Sharon, Report on Suites of Refined Petroleum, Products, 1977, 1978, 1979.

API publishes mentily estimates in houseasde observed upon the other worknown or residual fuel oil delivered from primary.

atorage. The initial published monthly estimate is derived from API sources, but in later API published non the estimates are revised using ERI data. The values solven in the table are equal to the same the initial published API monthly estimates of residual flott oil multiplied by the number of dops per month.

Generachic Overage, the 40 United States and the District of Columbia.

Initial Monthly Estimates of Production, Stocks, and Imports of Crude Oil As A Percent of EJA's
Final Published Estimates \*
January 1977 - December 1979

		uction g Month	Primary End of	Stocks At Month		orts Month
	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation	Mean Percent	Standard
EIA's Estimates from the Monthly Petroleum Statistics Report <sup>6</sup>	# 98.7%	1.6%	# 98.3%	1.4%	# 95.4%	2.4%
EIA's Estimates from the Petroleum Statement, Monthly	# 99.6%	0.6%	190.0%	9.1%	# 98.4%	1.8%

Initial Monthly Estimates of Products Supplied for Domestic Use as A Percent of EIA's Final Published Estimates \* January 1977 - December 1979

	Motor (	Gasoline	Distillate	Fuel Oil	Residua	l Fuel Oil
	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation
EIA's Estimates from the Monthly Petroleum Statistics Report <sup>b</sup>	99.9%	1.8%	99.9%	2.3%	<b># 9</b> 7.9%	2.7%
ElA's Estimates from the Petroleum Statement, Monthly	199.9%	0.3%	99.7%	0.5%	99.4%	1.2%

Initial Monthly Estimates of End-of-Month Primary Stocks As a Percent of EIA's Final Published Estimates \* January 1977 - December 1979

	Motor	Gasoline	Distillat	e Fuel Oil	Residua	Fuel Oil
BIA's Estimates from the	Mean Percent	Standard Deviation	Mean Percent	Standard Deviation	Mean Percent	Standar Deviatio
Monthly Petroleum Statistics Report <sup>5</sup>	99.7%	0.8%	99.7%	1.1%	100.1%	0.7%
EIA's Estimates from the Petroleum Statement, Monthly	99.9%	0.2%	100.0%	0.1%	100.1%	0.5%

<sup>#</sup> Represents a difference from 100% found to be statistically significant at the 95% level of confidence (n = 26).

<sup>&</sup>quot;Final monthly estimates are from the "Petroloum Statement, Annual" for 1977, 1978 and 1978. The mean percent is calculated as follows: each prefer settlement is first expressed as a percent of 21 Ås fram yublished estimates these are then manned and the sorm is divided by the number of estimate. The standard deviation is the sequer even of the quantity computed by summing the squared deviation of the percents from the mean percent and then dividing by the number of percents.

Based on 36 initial ostimates appearing in issues dated January 1977 - December 1979.

<sup>&</sup>quot;Based on 36 initial estimates appearing in issues dated January 1977 - December 1978.

"Based on 36 initial estimates successing in issues dated January 1977 - December 1979.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOB/E1A-0292.

# Note 4 Changes in Petroleum Industry Reporting

Petroleum statistics contained in this report for all years through 1980 were developed using definitions, concept, reporting precedures and aggregation methods that are consistent with hole-developed by the U.S. Bureau of Mines. Research conducted by the Berngy Information Administration in 1979 and 1980 indicated that changes had occurred in the petroleum industry that were not being adopted by the Berng's in Eld's proceeding without procedures and the petroleum industry that were not being adopted by the Berng's in Eld's procedure and the petroleum industry that were not being adopted by the Berng's in Eld's procedure and the petroleum industry that were not being adopted by the Berng's in Eld's procedure and the petroleum industry that were not being adopted by the Berng's in Eld's procedure and the Berng's industry that were not being adopted by the Berng's in Eld's procedure and the Berng's industry that were not being adopted by the Berng's industry that the Berng's industry in the Berng's industry that the Berng's industry in the Berng's in the Berng's in the Berng's industry in the Berng's in the Berng's in the Berng's in the Berng

SIA reporting forms, definitions, and procedures were modified beginning in January 1981 to describe industry operations more accurately. Unfortunately, maprical information is not available to precisely measure the data short-cornings throughout 1980. However, estimates of the magnitudes of differences in the major data series are described below forms a basis for comparing 1979, 1980, and 1981 data.

#### Motor Gasoline

Prior to 13th, the ELA product-snapilled series for motor gasoline was consistently about 2 percent lower than the Perford Highway Administration (PHWA) gasoline-asile data series, which is derived from State tax receipts. This difference increased to about 4 percent in 1989 and 5 percent in 1980. There are two primary causes for this greening effectives. Prints replicating you follow of unfinished oils and the redesignation of some finished products, were not being excurately described on the ELA survey forms. Second, a targe amount of gasdless was being produced sury from refineries are "downstream bending estations" to take advantage of provisions in regulations governing the amount of a survey of the production of the ELA survey forms and the survey of the production of the ELA survey forms and the survey of the

Quantitative estimates of the magnitude of the difference—in ElA's gasoline product supplied data in 1979 and 1980 have been maded by the ElA and the American Petroleum Institute (API). The following table provides 1979 and 1980 data as published in the Petroleum Statement Assaud, as well as ElA and API estimated "receas" motor gasiline product supplied. ElA receast estimates were based upon preliminary monthly information in the directly Petroleum Statement. The magnet singleyed in the ElA for those ways. The statement of the directly Petroleum Statement and the statement of the control of the statement of the

Office of Energy Information Validation, Snergy Information Administration, U.S. Department of Energy, Error Profile of the Motor Field Teamtion Date used to Establish and Monitor State Emergency Conservation Targets (Washington, D.C. December 1981).

Pinished Motor Gasoline Product Supplied on Old and New Basis (Thousand Barrels per Day)

		19	79			19	80	
	EIA Reported	API Recast	EIA Recast	FHWA:	EIA Reported	API Recast	EIA Recast	FHWA
Jan	6,830	7,230	7,084- 7,246	6,984	6,828	6,789	6,630- 6,791	6,672
Feb	7,254	7,496	7,389- 7,568	7,538	6,598	6,988	6,831- 7,063	6,830
Mar	7,229	7,414	7,301- 7,463	7,316	6,406	6,753	6,607-	6,713
Арг	7,055	7,300	7,187- 7,353	7,875	6,800	7,014	6,886- 7,052	6,981
May	7,218	7,429	7,313- 7,475	7,428	6,729	6,964	6,828-	7,044
Jun	7,191	7,483	7,350~ 7,516	7.441	6,657	6,966	6,824-	7,049
Jul	6,902	7,241	7,105- 7,266	7,299	6,743	6,973	6,960	7,132
Aug	7,330	7,546	7,426-	7,619	6,648	6,841	6,828	7,090
Sep	6,881	7,122	7,016- 7,262	7,232	6,510	6,692	6,962	6,685
Nov	6,791	7.068	6,956- 7,122	7,142	6,234	6,507	6,516	6,951
Dec	6,780	7,106	6,966- 7,127	7,064	6,632	6,948	6,936	6,998
Average	7,034	7,802	7,183- 7,847	7,809	6,579	6,882	6,896- 6,889	6,925

"FHWA gusoline statistics published in their. 1997 Tablo MF-280, 0.0-66-80, contain aviation gusoline on well as metapholine. Only motor gusoline data are included in published 1990 data. Consequently, the 1797 data above above were reduced to subtracting aviation gusoline product supplied quantities as published the XIA in the 1979 Petrolaum Statement Anno. The 1990 FHWA data published in their 1990 Tablo MF-2800A, August 1981, did not require this adjustment.

### Distillate and Residual Fuel Oil

Distillates and residual field oil refinery production statistics through 1989 were adjusted to account for roan inhalance between Infinished oil supply and dispation. The reported quantities of refinery is an inhalance between Infinished oil supply and inspation. The reported quantities of refinery is of unfinished oils typically exceed the available supply of unfinished oils. It has been assumed that this occur when the filled has not residual fined oil produced by a refinery is adipposed ascender refinery, it is trended as unfinished oil. This oil is then reprocessed rather than used or soil as distillate or residual final oil.

For many years (including 1980), the difference between unfinished oil disposition and supply was subtracted from distillate and residual fuel oil production to adjust for this discrepancy. Two-thirds of the difference was applied to distillate, and cen-third to residual fuel oil.

Beginning in January 1881 bits adjustment was discontined because there was not sufficient empirical evidence to support it. The following table presents distillate and residual led in Penney production in 1890 as published (adjusted) and on the same basis as 1881 statistics are now being completed (anadjusted) support comparisons to the comparison of the product support of the production of the product support support of the product support suppo

Adjusted and Unadjusted Refinery Production, and Unadjusted Product Supplied of Distillate and Residual Fuel Oils, by Month for 1979 and 1980 (Thousand Barrels Per Day)

		Distillate	Fuel Oil			Residual	Fuel Oil	
Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff	Unadj. Preduct Supplied
Jan.	3.043	3,108	65	4,646	1,912	1,946	34	3,594
Feb.	2,888	2,945	57	4,869	1,792	1,822	30	3,625
Mar.	3,019	3,026	7	3,671	1,719	1,723	4	3,243
Apr.	2,945	2,978	32	3,048	1,639	1,656	17	2,524
May	3,066	3,093	27	3,025	1,586	1,600	14	2,517
Jun.	3,153	3,187	35	2,743	1,548	1,566	18	2,601
Jul.	3,305	3,344	38	2,601	1,575	1,594	20	2,471
Aug.	8.821	3,359	38	2,799	1,584	1,603	20	2,570
Sep.	3,354	3,306	-48	2,599	1,627	1,602	-25	2,584
Oct.	3,251	3,217	-34	3,085	1,629	1,612	-17	2,528
Nov.	3,239	3,200	-89	3,208	1,736	1,716	-20	2,795
Dec.	3,221	3,238	17	3,725	1,894	1,903	9	3,022
Average	8,152	3,169	16	3,827	1,687	1,695	8	2,834
1980								
		Distillate	Fuel Oil			Residual	Fuel Oil	
Month	Adj. Ref.	Unadj. Ref. Prod	Diff	Unadj. Product Supplied	Adj. Ref. Prod	Unadj. Ref. Prod	Diff	Unadj. Product Supplied

		Distillate	Fuel Oil			Residual	Fuel Oil	
Month	Adj. Ref. Prod.	Unadj. Ref. Pred.	Diff.	Unadj. Product Supplied	Adj. Ref. Pred.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplied
Jan.	3,013	3,093	80	3.794	1.771	1.812	41	3,108
Feb.	2,766	2.888	122	3.834	1.773	1.836	68	3,168
Mar.	2,557	2,690	133	3,312	1,584	1,652	68	2,726
Apr.	2,460	2,554	94	2.729	1.595	1.643	48	2,492
May	2,474	2.610	136	2,538	1,509	1.579	70	2,305
Jun.	2,646	2,721	75	2,392	1,575	1,613	38	2,359
Jul.	2,689	2,783	94	2,343	1,480	1,528	48	2,339
Aug.	2,461	2.582	121	2,258	1.444	1.506	62	2,348
Sep.	2,686	2,726	40	2.627	1.495	1.516	21	2,380
Oct.	2,589	2,650	61	2,981	1,512	1,543	31	2,258
Nov.	2,703	2,823	120	3,069	1,579	1,641	62	2,513
Dec.	2,891	3,052	161	8,776	1,660	1,748	83	2,762
Average	2,661	2,764	103	2,969	1,580	1,684	54	2,562

## Total Petroleum Products

The imalation between the supply and disposition of authorised oils is now reported as part of the reclassified protection (in 39) into \$11.5. Perclame Balance (Falls) In Instalance between the supply and disposition of gasoline blending components comprise the remainder of the reclassified in Table 1. These imbalances recepted as superly reported supplied in the Order Liquidis acclosed of the tables of Supply and Diagnostion Statistics (Table 25. Since these colonges only involve redistribution of the Supply and Diagnostics Statistics (Table 25. Since these colonges only involve redistribution of the the state of the supplementation o

1979

## Note 5 Notes on Tables

- 5.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.
- Crude Oil and Petroleum Products Stock Withdrawal (\*) or Addition (\*). Petroleum Products
   Supplied, Total Imports, Crude Oil Imports, Total Experts, and Crude Oil Experts appear as labeled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.
- Natural Gas Plant Production is the sum of Natural Gas Plant Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports is the sum of Natural Gas Plant Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Petroleum Products Exports is the sum of Natural Gas Plant Liquids and LRGs, Other Liquids, and Finished Petroleum Products Exports in Table 4.
- $\bullet \ \, \textbf{Total Crude Oil and Petroleum Products Ending Stocks appear in thousands of barrels in \, \textbf{Table 2}.} \\$
- 5.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.
- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synoay-mous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Witchsawal (+) or Addition (-), Unaccounted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.
- SPR Ending Stocks and Other Primary Ending Stocks (aynonymous with stocks excluding SPR)
  - . Total Crude Oil Ending Stocks appear in thousands of barrels in Table 2.
  - · Total Imports appear in Table 4.
- 5.8 Finished Motor Gazoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.
- . Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gaseline product supplied, multiplied by 100 and rounded to the nearest tenth.
- . Ending Stocks appear in thousands of barrels in Table 2.
- 5.4 Distillate and Rosidual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.
- . Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Crude Used Directly, Exports, and Product Supplied appear as labeled in Table 4.
- . Ending Stocks appear in thousands of barrels in Table 2.
- 5.5 Liquefied Petroleum Gases and Ethane statistics represent the aggregation of statistics on ethane, propase, butane, butane-propase mixtures, ethane-propase mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- . Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- · Ending stocks appear in thousands of barrels in Table 2.
- 5.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasaline, tispentane, unfractionated stream, plant condensate, other liquids, and all finished percleum products except finished motor gasoline, distillate feu cil., and residual fue loil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.
- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
  - Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
  - Ending stocks are aggregated from ending stocks in thousands of barrels in Table 2.

#### Note 5.7 Toble 1. Il S. Petroleum Relence

- . Line (5) of Table 1: SPR imports are reported on Survey Form ERA-60.
- Line (12) of Table 1: "Total Other Sources" equals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil plus crude used as fuel and losses in Table 2.
- Line (14) of Table 1: Natural gas plant liquids (NGPL) "Production" equals field production of natural
  gas plant liquids (NGPL) plus field production of finished petroleum products in Table 2.
  - Line (16) of Table 1: NGPL "Imports" equals the sum of the imports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.
  - Line (18) of Table 1: NGPL "Stock Withdrawal (+) or Addition (-)" is equal to the sum of stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant conferents in Table 2.
  - Line (17) of Table 1 equals the sum of lines (14), (16), and (16) of Table 1.
  - Line (18) of Table 1: unfinished cils and gasoline blending components "Stock Withdrawal (+) or Addition (-)" equals stock withdrawal (+) or addition (-) for other hydrocarbons and sloohol, for unfinished cils, motor gasoline blending components, and aviation gasoline bending components
  - Line (20) of Table 1: "Other Hydrocarbons and Alcohol New Supply" equals the field production of same in Table 2.
- Line (21) on Table 1: "Refinery Processing Gain" is a balancing item equal to total refinery production minus total refinery input in Table 2.
- Line (22) on Table 1: "Crude Used Directly" equals the sum of crude oil used directly as distillate and
  residual fuel oils in Table 2.
- Line (23) of Table 1: "Total Other Liquids" equals the sum of lines (18) through (22) of Table 1.
- Line (24) of Table 1: "Total Production of Products" equals crude oil Input to refineries plus fields
  production of NoPL and finished petroleum products plus imports of natural spacine and inceptual
  productions of NoPL and finished petroleum products plus imports of natural spacine and inceptual
  productions of the product 
addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gashline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil used as distillate and residual field his in Table 2.

- Line (25) of Table 1: "Gross Imports of Refined Products" equals imports of LPG and ethane plus imports of finished petroleum products in Table 2.
- Line (26) of Table 1: "Exports of Refined Products" equals exports of LPG and chane plus exports of finished patroleum products in Table 2.
- Line (27) of Table 1: "Net Imports of Refined Products" equals the difference between lines (25) and (28) of Table (1).
- Lins (36) «Table 1: "Petal New Supple of Predestre" «quala revide di larges to effencie pius fast production of NGPand and finished poter dema production pius fast and dispersance, unfrantistated stream, and plant condensate pius soles withdrawal () or addition (.) of autoria, unfrantistated stream, and plant condensate pius soles withdrawal () or addition (.) of autoria, considerated production and separate, unfrancistated stream, and plant condensate pius soles withdrawal () or addition (.) of autoria and motor steel production (.) of the production (.) of th
- Line (29) of Table 1: "Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and ethans, and finished petroleum products in Table 2.
- Line (30) of Table 1: "Total Petroleum Products Supplied for Domestic Use" equals total products aumplied in Table 2.
- . Lines (31) through (37) of Table 1 equal the respective products supplied in Table 2.
- Line (88) of Table 1: "Other Products Supplied" equals the sum of natural gazoline and isopentane, unfractionated stream, plant condensate, avaiton gazoline, naphtha <400 Deg. For perorebernical feedstock uses, other oils >400 Deg. F. for petrochemical feedstock use, special maphthas, fubricants, waxes, coke, apphala; road oil, still gas, and miscellancous products applied in Table 2.
- Line (39) of Table 1: "Total Reclassified" is a balancing item equal to the sum of unfinished oils, motor
  gasoline blending components, and aviation gasoline blending components products supplied in Table 2.
- . Line (40) of Table 1: "Total Product Supplied" is equal to total products supplied in Table 2.
- The sum of lines (41) and (42) of Table 1, stocks of "Crude Oil and Lease Condensate (Excluding SPR)" and stocks held by the "Strategic Petroleum Reserve," equals ending stocks of crude oil in Table 2, SPR stocks are reported on Form EIA-90.
- Line (46) of Table 1, stocks of "Refined Products," equals the sum of LPG and ethane and finished petroleum product stocks in Table 2.





1340.1	Energy Information Administration	Administration		
ì	GPO SUBSCRIPTION ORDER FORM	ORDER FORM		-41
(For use A	For use in ordering E1A Publications anly - Read Ordering Information Section before completing form.]	ing Information Section before compl	eting form.)	ø
SEND ORDER FORM T	SEND ORDER FORM TO: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402	.S. Government Printing Offi	ce, Washington, D.C., 20402	
Enclosed is \$    Money order, or charge to my Deposit Account No.	Oheck WS4*	Credit Card Orders Only Total charges \$ Credit Card No. Expiration Date	Fill in the boxes below	
PLEASE PRINT OR TYPE	NAME AND ADDRESS		FOR DFFICE USE ONLY	
WARE FIRST LAST CONSENSE LAST FIRST COSTS AS	WIND THE	33333		